PHASE II SITE CHARACTERIZATION REPORT AND REMEDIAL OPTIONS ANALYSIS

Little Falls Site
Hydro & Transmission Line Properties
Windham and Gorham, Maine

TRC Project Number: 191981

Prepared For:

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September 19, 2013

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ACRONYM LIST

COC – Chemical of Concern

COPC – Chemical of Potential Concern

CSM – Conceptual Site Model

DIFW – Department of Inland Fisheries and Wildlife

EPH – Extractable Petroleum Hydrocarbon

ESA – Environmental Site Assessment

HDPE – High-density polyethylene

HI – Hazard Index

ILCR – Incremental Lifetime Cancer Risk

MEDEP – Maine Department of Environmental Protection

MEDOT – Maine Department of Transportation

OSHA – Occupational Safety and Health Administration

PAH – polynuclear aromatic hydrocarbon

PCB – polychlorinated biphenyl

PPE – Personal Protective Equipment

ppm – parts per million

RAG – Remedial Action Guideline

REC – Recognized Environmental Condition

SOP – Standard Operating Procedure

SPLP – Synthetic Precipitation Leaching Procedure

TAL – Target Analyte List

TCLP – Toxicity Characteristic Leaching Procedure

TSCA – Toxic Substance Control Act

USEPA – United States Environmental Protection Agency

VRAP – Voluntary Response Action Program

1.0 INTRODUCTION & OBJECTIVES

On behalf of S.D. Warren Company d/b/a Sappi Fine Paper North America (Sappi), TRC Environmental Corporation (TRC) conducted a Phase II Site Characterization and Remedial Options Analysis (Phase II) for Sappi's Little Falls property located near Main and Depot Streets in the Town of Windham, Cumberland County, Maine (the Site). The location of the Site is shown on Figure 1 as two red outlined areas representing the "Hydro" and the "Transmission Line" Properties.

For the purposes of this document, the Site consists of both the Hydro (off of Main Street) and Transmission Line (near Depot Street) Properties owned by Sappi as described herein, and excludes any owned submerged land beneath the Presumpscot River, as well as any buried pipes or culverts that may be located on Sappi property but originating from the Keddy Mill that could be discharging to the Presumpscot River. The Hydro and Transmission Line Properties are separated by the Keddy Mill property and the Presumpscot River. Figure 2 shows the general features of the Hydro Property. Figure 3 shows the general features of the entire Transmission Line Property and Figure 4 depicts the Northern portion of the Transmission Line Property in greater detail (this area is referred to as the "Northern Transmission Line Property" throughout the report).

1.1 Introduction

During the summer of 2012, Sappi requested that TRC conduct an ASTM Phase I Environmental Site Assessment (ESA) for the Hydro and Transmission Line Properties. This Phase I ESA was part of an environmental due diligence process that identified three Recognized Environmental Conditions (RECs) associated with the Site. These RECs are summarized below:

- REC 1 - On-Site dumping of historical mill waste and documented soil impacts on the Transmission Line Property;
- REC 2 - Off-Site environmental impacts at the adjacent Keddy Mill property; and
- REC 3 - Off-Site kerosene release from the adjacent 859 Gray Road residential property.

The results of the Phase I ESA process were documented in a Phase I ESA Report, dated September 2012. A copy of the Phase I ESA Report is included as Appendix A.

REC 3 is located on the west side of the Presumpscot River in Gorham and is not considered hydrogeologically connected to the Site due to a major river body separating them. Groundwater was not encountered in overburden materials at the Site. REC 3 is not considered likely to impact the Site and, therefore, not further evaluated under this effort.

Based on the results of this environmental due diligence, Sappi applied for and was accepted into the Maine Department of Environmental Protection (MEDEP) Voluntary Response Action Program (VRAP). Sappi next authorized a targeted subsurface site investigation to evaluate the existence and extent of the identified RECs and other environmental concerns (e.g., fill material). TRC prepared a *Sampling Plan*, dated September 2012, for MEDEP review and comment. MEDEP approved (with comments) the *Sampling Plan* by letter from N. Hodgkins, MEDEP, to T. Howard, Sappi, dated October 22, 2012, Re: Comments on "Sampling Plan: Upland Portion of the Sappi Little Falls Hydro & Transmission Line Properties," Main Street and Depot Street, Windham, Maine. The targeted subsurface investigation consisted of the following activities between November 6 and December 10, 2012.

- Test pits and soil sampling/analysis;
- Hand auger borings and soil sampling/analysis;
- Soil borings (direct push and hand auger) and soil sampling/analysis;
- Upland sediment sampling/analysis; and
- Upland river bank sampling/analysis.

The results of the targeted subsurface investigation activities were documented in a Technical Memorandum, dated January 2013. A copy of the Technical Memorandum is included as Appendix B.

The information gathered during the activities described above has been used to complete this Phase II as presented herein.

This Phase II report considers data collected on the neighboring Keddy Mill parcel which was generated by both EPA and MEDEP's Brownfields Contractor.

1.2 Objectives

This effort focused on impacts to soil and fill material at the Site, as outlined in the MEDEP approved Work Plan. Based upon the results of a potential groundwater receptor survey and the site setting, the MEDEP approved Work Plan did not require a groundwater investigation. Furthermore, groundwater was not encountered in any soil borings or test pit advanced during this Phase II effort.

This Phase II Report was developed to present the surface and subsurface conditions found at the Site, summarize the human health risks associated with those conditions and provide potential remedial approaches which are appropriate and protective of public health. The following information provides a detailed site characterization and remedial approach for the Site.

- Site and surrounding area description
- Field activity summary
- Analytical data summary
- Conceptual Site Model
- Site-specific human health risk assessment
- Findings and conclusions
- Remedial options analysis and feasibility study
- Recommendations
- Proposed implementation schedule

2.0 SITE AND SURROUNDING AREA DESCRIPTION

The following section provides a summary description of the Site and surrounding area. Please see the September 2012 Phase I ESA (included as Appendix A) for additional detail.

2.1 Hydro Property

Figure 2 shows the general features of the Hydro Property (northwestern portion of the Site) which is located along the eastern bank of the Presumpscot River in south Windham. The Hydro Property is located to the east of the Route 202 Presumpscot River bridge along Main Street in Windham and/or Gray Road in Gorham.

Before being acquired by Sappi, the Hydro Property contained additional structures and was part of the larger mill complex to the north and east. This hydro dam and the smaller parcel where it is located was purchased by Sappi in 1974 as manufacturing ended at the mill. This property currently includes an unpaved driveway and parking areas, hydro-electric generation station, an impoundment dam, and an abandoned former residential apartment on both the first and second stories of the station. The western portion of this property was used by Maine Department of Transportation (MEDOT) as an equipment storage and laydown yard during reconstruction of the Route 202 Presumpscot River Bridge in the mid-2000. The Hydro Property is accessed via Main Street just north of the Main Street/Gray Road Bridge. Sappi has made no improvements to the property during ownership other than those needed to maintain or improve hydroelectric power generation.

The topography of the Hydro Property is gently sloping to the east to relatively flat.

2.2 Transmission Line Property

Figures 3 and 4 present the general features of the Transmission Line Property (northeast and eastern portion of the Site) which extends southerly from the Keddy Mill property to the north, then along the eastern banks of the Presumpscot River, and then up to the railroad right of way/ MEDOT property to the east.

Formerly the Transmission Line Property was part of the larger mill complex to the north however; this parcel was purchased by Sappi in 1974 as manufacturing ended at the mill. This property operated as a transmission line since development and is not known to have contained structures. This property is currently undeveloped with the exception of seven transmission line poles and a cleared access right of way (dirt road/path). The majority of the Site is wooded. The Site is accessed via a MEDOT gravel "road" (former rail bed) located off Depot Street (along the abutting railroad tracks on the Keddy Mill Site and the MEDOT right of way to the west). Sappi has made no significant improvements to the property during ownership other than those needed to maintain the transmission line.

TRC observed fill material at ground surface in multiple locations in the northern third of the Transmission Line Property. The extent of fill material observed (both ground surface and subsurface indications) is depicted on Figures 3 and 4. This surficial fill material contained slag, coal, ash, concrete, bricks, leather, porcelain, metal, and metal shavings and generally extended from the western side of the transmission line to the waterline of the Presumpscot River. Fill material was observed in the cut bank of the river as well.

The topography of the Transmission Line Property, from east to west, is relatively flat then sloping steeply to the west toward the Presumpscot River after crossing over the transmission line right of way.

2.3 Environmental Setting

The Hydro Property is surrounded by a multi-unit residential structure (north), a closed former mill (east), the Presumpscot River (south), and Route 202 (west).

The Transmission Line Property is surrounded by a closed former mill (north), MEDOT right of way (east), dirt parking lot and Mallison Falls Road (south) and the Presumpscot River (west). The MEDOT right of way can be unofficially used as a walking / recreational trail.

3.0 SUMMARY OF ENVIRONMENTAL ACTIVITIES

Field investigation activities were conducted per TRC's Standard Operating Procedures (SOPs) and the TRC prepared *Sampling Plan*, dated September 2012, with sampling between November 6 and December 10, 2012. For additional detail, please refer to the January 2013 Technical Memorandum provided in Appendix B, which includes a photograph log of site features and activities.

3.1 Hydro Property

This section summarizes test pit and soil boring field investigation activities conducted on the Hydro Property. Samples were targeted to assess surficial earthen cover material, a fill / debris layer, and soils directly above bedrock/refusal. Additional details are provided in the Technical Memorandum (Appendix B).

Test Pits

TRC excavated four test pits at the Hydro Property (designated H-TP-1, H-TP-2, H-TP-3, and H-TP-4 on Figure 2) on November 7, 2012 for the purposes of collecting soil samples for laboratory analysis. Test pits were excavated to depths ranging from 4.5 to 14 feet. TRC collected up to three soil samples from each test pit Soil samples were submitted to Contest Analytical Laboratory for laboratory analysis of polychlorinated biphenyl (PCB) Aroclors, Target Analyte List (TAL) metals, cyanide, and Extractable Petroleum Hydrocarbons (EPH), including polynuclear aromatic hydrocarbon (PAH) target compounds.

Direct Push Soil Borings

Based on a review of the preliminary test pit analytical data, TRC installed three direct push soil borings at the Hydro Property (H-GP-1, H-GP-2, and H-GP-3) on December 5, 2012 to evaluate the extent of impacts identified in the test pit soil samples. Borings were advanced to depths ranging from 3 to 12 feet. TRC collected three analytical soil samples from each of the soil borings. Soil samples were submitted for laboratory analysis of PCB Aroclors, TAL metals, cyanide, and EPH (including PAH target compounds).

3.2 Transmission Line Property

This section summarizes test pit, soil boring, and hand auger field investigation activities conducted on the Transmission Line Property. Samples were targeted to assess surficial earthen cover material, a fill / debris layer, and soils directly above bedrock/refusal. The Technical Memorandum (Appendix B) provides additional information.

Test Pits

TRC excavated 10 test pits at the Transmission Line Property (T-TP-1 through T-TP-10) on November 6 and 7, 2012 for the purposes of collecting soil analytical samples. Test pits were excavated to depths ranging from 3 to 13 feet.

TRC collected three discrete analytical samples from five test pits (T-TP-1, T-TP-4, T-TP-5, T-TP-6, T-TP-7 on Figures 3 and 4) and two discrete analytical samples from each of the remaining five test pits (T-TP-2, T-TP-3, T-TP-8, T-TP-9, T-TP-10). Samples were generally collected from three different intervals: from the surface (0 to 1 foot), from observed fill material ranging from 1 to 10 feet deep (generally less than or equal to a 2-foot interval), and from the bottom of the test pits where native soil was observed ranging from 2 to 12-feet.

Soil samples were submitted for laboratory analysis of PCB Aroclors, TAL metals, cyanide, and EPH (including PAH target compounds). Samples were submitted to Contest.

Direct Push Soil Borings

Based on a review of the preliminary test pit analytical data, TRC installed 17 direct push soil borings at the Transmission Line Property (T-GP-1 through T-GP-17) on December 4 and 5, 2012 to evaluate the extent of impacts identified in the test pit soil samples. Borings were advanced to depths ranging from 3 to 12 feet.

TRC collected three analytical samples from six soil borings (T-GP-1, T-GP-2, T-GP-3, T-GP-5, T-GP-14 and T-GP-15) and two analytical samples from the remaining eleven soil borings (T-GP-4, T-GP-6 through T-GP-13, T-GP-16 and T-GP-17). Samples were generally collected from the surface (0 to 1 foot), a 2-foot interval consisting of fill material between 1 and 6.5 feet and from the bottom of the soil boring within native soil.

The soil samples were submitted for laboratory analysis of PCB Aroclors, TAL metals, cyanide, Synthetic Precipitation Leaching Procedure (SPLP), Toxicity Characteristic Leaching Procedure (TCLP), and EPH (including PAH target compounds). Samples were submitted to Contest.

Hand Auger Soil Borings

TRC advanced ten shallow (0-1 foot) hand auger borings (T-HA-1 through T-HA-10) on November 8, 2012 from the southeast portion of the Site, south of the surface water drainage, where fill material has not been observed. Of these ten locations, two soil samples (T-HA-5 and T-HA-10) were submitted to the laboratory (Contest) for analysis.

Two additional hand auger borings (T-GP-18 and T-GP-19) were advanced on December 10, 2012 to further evaluate fill material in areas inaccessible to the excavator and Geoprobe Systems® drill rig (Geoprobe). At both locations, soil samples were submitted to the laboratory (Contest) for analysis.

The soil samples were submitted for laboratory analysis of PCB Aroclors, TAL metals, cyanide, and EPH (including PAH target compounds).

Upland Surface Water Drainage Sampling

TRC collected two sediment grab samples (T-SWD-1 and T-SWD-2) from the upland surface water drainage feature from the Transmission Line Property on November 7, 2012. The sediment samples were submitted to the laboratory (Contest) and analyzed for PCB Aroclors, TAL metals, cyanide, and EPH (including PAH target compounds).

Upland Riverbank Soil Sampling

TRC collected four riverbank soil grab samples (T-BANK-1, T-BANK-2, T-BANK-3 and T-BANK-4) from the Transmission Line Property on November 7 and 8, 2012. Samples were collected from the upland portion of the bank of the Presumpscot River corresponding to locations where the United States Environmental Protection Agency (USEPA) had proposed to conduct sediment sampling in the July 10, 2012 *Field Task Work Plan for Soil and Sediment Sampling, Keddy Mill, Windham, Maine* (H&S/Nobis Environmental LLC). The soil samples were analyzed for PCB Aroclors, TAL metals, cyanide, and EPH (including PAH target compounds).

4.0 SUMMARY OF ANALYTICAL RESULTS

This section provides a brief summary of the laboratory analytical data collected in the fall of 2012. A tabular summary of this data is provided in Tables 1 through 7. Data maps based on representative indicator analytes (benzo(a)pyrene, arsenic, and lead) are provided in Figures 5 and 6 for the Hydro Property and Transmission Line Property, respectively. Please note that these laboratory data were subjected to a cursory usability assessment by a TRC chemist and found to be of acceptable quality for use. For additional detail, refer to the January 2013 Technical Memorandum provided in Appendix B.

4.1 Summary of MEDEP Guidelines Used for Comparisons

Laboratory analytical results of soil samples collected at the Site were compared to the Maine Remedial Action Guidelines for Soil (*Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances (draft)*) (RAGs). These comparisons were performed to assist in framing the analytical results, not to provide an indication of risk to human receptors that may be present at the property. Instead, a site-specific risk assessment was performed to characterize human health risk because the default MEDEP scenarios for the RAGs are overly conservative for current and anticipated future use of the properties.

The below scenario-specific RAGs values / guidelines were used to frame the analytical results:

- Outdoor Commercial Worker Scenario
- Excavation or Construction Worker Scenario
- Leaching to Groundwater Guidelines
- Maine Background Guidelines

Laboratory analytical results of lead soil samples collected for TCLP lead analysis were compared to EPA SW-846 Chapter 7, Table 7-1, *Maximum Concentration of Contaminants for Toxicity Characteristic*.

Please note that the January 2013 Technical Memorandum referenced above compares analytical results to the RAGs for the Residential Scenario. However, Sappi has indicated a desire to place a Uniform Environmental Covenant (UEC) on the Site limiting its future use to current uses and disallowing residential and active/passive park usage. Therefore, the residential and park visitor RAGs criteria are not applicable comparison criteria, and the Outdoor Commercial Worker and Excavation or Construction Worker RAGs criteria are overly conservative due to the infrequent worker occupancy at the Site versus the long-term occupancy assumptions in those RAG scenarios.

4.2 Hydro Property

A summary of the tabulated analytical data from the Hydro Property, compared to the Outdoor Commercial Worker, Excavation or Construction Worker, and Leaching to Groundwater RAGs guidelines as well as Maine Background guidelines, is provided below and summarized in tabular format in Tables 1 and 3, although highlights of analytical data are presented below, Section 5 provides an assessment of the data in the context of a Conceptual Site Model:

EPHs/PAHs: EPH carbon ranges were detected in soil below the RAGs. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene and naphthalene were detected in soil. Only benzo(a)pyrene concentrations exceeded the RAGs (two sample locations: H-TP-1(4-5) and H-GP-3(2.5-3.5).

Metals: Aluminum, arsenic, chromium, cobalt, iron, lead, manganese and vanadium were detected. Of these metals, only arsenic concentrations exceeded the RAGs (two sample locations: H-TP-1(4-5) and H-TP-3(0-1).

PCBs: PCBs were detected in one sample (H-TP-4(0-1)) at a concentration of 0.175 milligrams per kilogram (mg/kg). This concentration is below the RAGs.

At the Hydro Property, Leaching to Groundwater Guidelines were not exceeded indicating that even if groundwater were encountered at the Site, it likely would not be impacted.

4.3 Transmission Line Property

A summary of the analytical data from the Transmission Line Property, compared to the Outdoor Commercial Worker, Excavation or Construction Worker, and Leaching to Groundwater RAGs guidelines as well as Maine Background guidelines, is provided below and summarized in tabular format in Tables 2 and 4 through 7.

EPHs/PAHs: EPH carbon ranges were detected below the RAGs. Seventeen (17) PAHs were detected in site soils on the Transmission Line property. Of these compounds only one PAH, benzo(a)pyrene, exceeded the RAGs in one sample location: H-TP-1(8-10).

Metals: Aluminum, antimony, arsenic, chromium, cobalt, copper, iron, lead, manganese, mercury, vanadium, and cyanide were detected. Of these metals only lead and/or arsenic exceeded the RAGs which were exceeded at twenty two sample locations. Arsenic detection above the RAGs ranged from 17 to 57 mg/kg. Lead detection above the RAGs ranged from 1,300 to 5,000 mg/kg.

Lead TCLP: Three samples (T-GP-2(2-6), T-GP-4(0-1), T-GP-14(1.5-5.5)) from the Transmission Line Property were analyzed for TCLP lead. Lead was detected at all these locations; however, at T-GP-14(1.5-5.5) lead was detected at 17 ppm which is above the USEPA regulatory limit of 5 ppm (40 CFR 261).

PCBs: Aroclor 1254 was detected at the Transmission Line Property in 15 sample locations with concentrations ranging from 0.11 to 8.4 mg/kg. Aroclor 1248 was detected in 1 sample with a concentration of 0.19 mg/kg at T-GP-7[0-1]). The excavation or construction worker RAG for PCBs (7 mg/kg) was slightly exceeded in one soil sample collected at T-GP-7R(1-2.5).

At the Transmission Line Property, Leaching to Groundwater Guidelines were not exceeded indicating that even if groundwater were encountered at the Site, it likely would not be impacted.

5.0 CONCEPTUAL SITE MODEL

The following section provides a current Conceptual Site Model (CSM) for the Site. This CSM represents TRC's current understanding based on existing data. The CSM may evolve over time as additional information becomes available.

5.1 Current Site Use

Currently, the Hydro Property consists of an unpaved driveway / parking lot and an active hydro-electric dam. The Transmission Line Property is predominantly undeveloped and wooded except for an above-ground electrical transmission line and cleared (unpaved) right-of-way maintenance road, located along the eastern side of the Site.

Adult workers access the Site periodically to inspect and perform maintenance on the hydro-electric dam and transmission line.

The Site is not currently fenced. Trespassers could potentially access the site and potentially come into contact with Site soil and fill materials, but Sappi conducts systematic patrolling and inspection to identify and discourage trespassers.

5.2 Anticipated Future Site Use

Sappi plans to use the Site for its current industrial use for electric generation and transmission into the foreseeable future. Limited construction activities associated with maintenance of the hydro-electric dam and transmission line, including limited soil excavation for transmission line pole replacement, are likely and would utilize adult workers.

There are no plans for residential, unrestricted commercial or park use now or in the foreseeable future. Future land use will be consistent with current land use, and controlled through the implementation of a Uniform Environmental Covenant and inspections. The abandoned residential apartment on the southern side of the dam structure cannot be used due to building codes and safety concerns, and Sappi would not allow such use in any event for safety reasons.

5.3 Geologic and Hydrogeologic Conditions

Geologic and hydrogeologic conditions are discussed below for the Hydro and the Transmission Line Properties.

5.3.1 Hydro Property

Overburden at the Hydro Property consists of organic soil underlain by sand/gravel (fill), and/or fine sand, silt and clay and bedrock. Thickness of the overburden ranges from approximately 4.5 feet (H-TP-2) in the western portion to 14 feet (H-TP-4) in the eastern portion of the property, and is further described below.

- **Topsoil –** Topsoil consists of sand and silt containing decayed organic matter and roots and occurs at the ground surface when present. Soil thickness ranged generally from 2 to 6 inches.
- **Fill -** Fill material consists of silt, sand, and gravel. Fill containing demolition debris including brick, concrete, burned wood, and angular gravel were observed in test pits (H-TP-1 through H-TP-3) immediately overlying bedrock. Three borings (H-GP-1 through H-GP-3), located in the

western portion of the Hydro property encountered historic fill containing coal, ash, and slag to a depth of 6 feet. These materials were covered by sand and gravel ranging from 1 to 2.2 feet thick.

- **Native silt and clay -** Silt and clay with trace to some fine-coarse sand underlies the fill and ranges from at least 4 feet (H-GP-3) to 5.7 feet (H-GP-2) thick in the western portion of the property.
- **Peat –** Peat deposits underlay sand and fill (slag, cinder, and cement) at a depth of 10.5 to 14 feet (H-TP-4) in the eastern portion of the Hydro Property. Peat was observed at only one test pit.

Bedrock was encountered in test pits and borings as evidenced by refusal and angular bedrock fragments in samples at refusal. The depth to bedrock ranged from 4.5 feet to greater than 14 feet (H-TP-4).

Groundwater was not encountered during the investigation of the Hydro Property. The lack of observed groundwater is likely do to one or a combination of the following considerations.

- **Groundwater elevation -** The elevation difference between the sampling depths and the Presumpscot River indicates shallow groundwater does not exist at the maximum depth of the borings/test pits;
- **Subsurface structures -** Potential structural walls and/or foundations from historical buildings may be altering shallow groundwater flow paths; and/or
- **Absence in overburden -** Shallow groundwater may exist in bedrock, but not in overburden.

Groundwater at the Site is likely hydrogeologically connected to the Presumpscot River meaning that potential downgradient drinking water receptors likely to not exist.

5.3.2 Transmission Line Property

The Transmission Line Property topography slopes moderately from the transmission line access road (east) to the west, then drops steeply along the cut bank of the Presumpscot River. A surface water drainage is located approximately one third of the way down (to the south) of the Transmission Line Property beyond the area containing observed fill materials. This surface water drainage has been observed during both flowing and dry conditions.

Overburden at the Transmission Line Property consists of organic soil underlain by sand/gravel (fill), and/or fine sand, silt and clay and bedrock. Thickness of the overburden ranges from approximately 0.5 feet (T-BANK-1 through T-BANK-4) along the east bank of the Presumpscot River to 12 feet (T-GP-2) in the northeast portion. Additional detail is provided below.

- **Topsoil -** Topsoil consists of sand and silt containing organic matter and although discontinuous, is the uppermost unit when present. Soil thickness ranged generally from 2 to 4 inches, when present.
- **Fill -** Fill materials included silt, sand, and gravel. Fill contained slag, coal, ash, concrete, bricks, leather, porcelain, and burned wood; thickness ranged from absent, up to approximately 12 feet (T-TP-1).
- **Sand and gravel -** Sand and gravel occurs directly beneath natural soil at 6 locations (T-GP-6, T-GP-8, T-GP-9 T-GP-10, T-GP-11, T-GP-12).
- **Native silt and clay -** Fine sand, silt, and clay with trace to some medium-coarse sand underlies fill and sand and gravel. Thickness of the this unit ranges from 0.5 feet (T-GP-19) to 6.7 feet (T-GP-5).

Bedrock was encountered in test pits and borings as evidenced by refusal and angular bedrock fragments in samples at refusal. The depth to bedrock ranged from 0.5 feet to 12 feet (T-GP-17).

Groundwater was not encountered during the investigation of the Transmission Line Property. The lack of observed groundwater is likely due to one or a combination of the following considerations.

- **Groundwater elevation -** The elevation difference between the sampling depths and the Presumpscot River maybe a factor affecting the slope of the groundwater table in this area; and/or
- **Absence in overburden -** Shallow groundwater may exist in bedrock in this area, but not in overburden.

Groundwater at the Site is likely hydrogeologically connected to the Presumpscot River meaning that potential downgradient drinking water receptors would not exist.

5.4 Nature and Extent of Impacts

Analytical results are discussed relative to the Outdoor Commercial Worker, Excavation or Construction Worker, and Leaching to Groundwater RAGs guidelines as well as Maine Background guidelines. These comparisons were performed to assist in framing the nature and extent discussion, not to provide an indication of risk to human receptors that may be present at the property. Instead, a site-specific risk assessment was performed to characterize human health risk because the default MEDEP scenarios for the RAGs are overly conservative for current and anticipated future use of the properties. The nature and extent of impacts detected/observed at the Site are discussed below.

5.4.1 Hydro Property

At the Hydro Property, EPH, PAHs, PCBs and metals were detected in soil samples. However, only benzo(a)pyrene and arsenic (see arsenic discussion below) were detected above the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs. These impacts were fairly localized to the extreme western area of the property, the furthest from the Keddy Mill parcel. They exist in the disturbed area adjacent to Route 202 and the Presumpscot River Bridge. A potential source or cause of these impacts is described below.

Chemical concentrations of soil and observed fill material in the central and eastern portions of the Hydro Property did not exceed the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs.

PCBs

While PCBs did not exceed the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at the Hydro Property, it is a useful compound in drawing distinctions between the fill material on the Site and the Keddy Mill parcel. EPA has documented widespread PCB impacts on the Keddy Mill parcel (concentrations ranging from non-detect to 110,000 mg/kg total PCBs). On the Keddy Mill parcel, EPA surface soil samples SS-03 and SS-04 are located adjacent to the north of the eastern portion of the Hydro Property and did not indicate chemical concentrations in soil above the Excavation or Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs. EPA surface soil samples SS-06 and SS-08 are located to the north and east and indicate one PCB (Aroclor 1254) with concentrations of 180 mg/kg and 150 mg/kg, respectively. EPA did not analyze soil below two feet at any of these locations.

By contrast, PCBs were absent from all but one sample on the Hydro Property (H-TP-4[0-1] where PCBs were detected at 0.18 mg/kg), a trace/background concentration amount. This PCB, Aroclor 1254, is the same Aroclor that is widespread on the Keddy Mill parcel, but at a significantly lower concentration. This datum suggests that there has been minimal cross contamination from the Keddy Mill parcel to the Hydro Property.

PAHs

Benzo(a)pyrene was the only PAH detected above Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at 12 mg/kg (H-GP-3[2.5-3.5]) and 6.2 mg/kg (H-TP-1[4-5]) at the Hydro Property in the subsurface. At the Keddy Mill parcel, EPA did not detect PAHs on the western portion of the parcel adjacent to Sappi's property. These data suggest that the Keddy Mill parcel may not be the source of PAHs on the Hydro Property.

5.4.2 Transmission Line Property

At the Transmission Line Property, EPH, PAHs, PCBs and metals were detected in soil samples. However, only benzo(a)pyrene, PCBs (Aroclor 1254), lead, and arsenic (see arsenic discussion below) were detected above the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs. The data indicated these impacts were limited to the northern third of the property, generally in the area where fill material has been observed. Specifically, the area of impacts measured extend from the north by the Keddy Mill parcel boundary approximately 500-feet south down the Transmission Line Property. The western extent is bounded by the Presumpscot River. The eastern extent of fill is not fully defined beyond Sappi's property, as fill material was observed all the way to Sappi's eastern property boundary (which boundary is the Keddy Mill property). EPA collected two surface soil samples (SS-16 and SS-17) on the Keddy Mill property to the east and identified fill material in both these samples which confirms fill material exists on the Keddy Mill property as well.

To better evaluate the extent of fill material, an interpretative fill thickness contour map was prepared (provided as Figure 7) and four geologic cross sections were generated (included in Appendix D). The interpretative fill thickness contour map indicates the largest fill thickness is in the extreme northern end of the Transmission Line Property, becoming shallower to the south. Another moderately thick area of fill was identified around locations T-TP-7 and T-GP-14. The geologic cross sections support this interpretation adding that, generally speaking, fill material thickness increases from east to west (as you move down slope towards the Presumpscot River). Please note that the interpretative fill thickness contour map and geologic cross sections are estimates. The fill material is heterogeneous and observed to have varying thickness laterally.

The southern two thirds of the Transmission Line Property were visually free of detected chemical impacts. The exception was the presence of one metal, arsenic (see arsenic discussion Section 5.6 below).

PAHs

Benzo(a)pyrene was the only PAH detected above Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at 5.3 mg/kg (T-TP-1[8-10]) at the Transmission Line Property in subsurface soil. At the Keddy Mill parcel, EPA's data shows benzo(a)pyrene at 3,600 mg/kg and 2,200 mg/kg (SS-14 and SS-17, respectively) on the western side of the parcel adjacent to Sappi's property. These data suggest that while the fill material on the Transmission Line Property may have originated from the Keddy Mill parcel, there is a substantial difference between the benzo(a)pyrene concentrations found on the two properties, with Keddy Mill being almost 3 orders of magnitude higher in concentration.

PCBs

Aroclor 1254 was the only PCB detected above Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at 8.4 mg/kg (T-GP-7R[1-2.5]) at the Transmission Line Property in surficial soil. On additional PCB, Aroclor 1248, as also detected at 0.19 mg/kg (T-GP-17[0-1]) but well below the guideline of 7 mg/kg.

At the Keddy Mill parcel, EPA's sampling effort has documented widespread PCB impacts. Three PCB Aroclors at Keddy Mill were identified (1242, 1248, and 1254) ranging in concentration from less than 1 mg/kg to 110,000 mg/kg. The highest PCB concentrations are of Aroclor 1242 which was not detected on Sappi's property. Additionally, the concentrations of Aroclors 1248 and 1254 on the Keddy Mill parcel are consistently in the hundreds of mg/kg. Two EPA sample locations on Keddy Mill property, near to the Transmission Line Property (SS-15 and SS-21), have total PCB concentrations of 640 mg/kg and 160 mg/kg, respectively. EPA also collected samples from "Mill Deposited Slag Material Source Samples" which are presumably samples of the slag waste found on the Keddy Mill Parcel. These slag source samples contained PCB concentrations 3 orders of magnitude higher than on Sappi property. These data suggest that while the fill material on the Transmission Line Property may have originated from the Keddy Mill parcel, the PCB concentrations found on the Transmission Line Property are significantly lower.

Lead

On Sappi's property, lead was detected at concentrations exceeding the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs of 950 mg/kg at six locations (T-TP-5[0-1] - 1,300 mg/kg, T-TP-7[0-1] - 2,800 mg/kg, T-TP-7[2-3] - 5,000 mg/kg, T-GP-2[2-6] - 1,500 mg/kg, T-GP-14[0-1] - 4,300 mg/kg, T-GP-14[0-1] - 3,400 mg/kg) in both surficial and subsurface soil. The highest concentrations of lead on the Keddy Mill parcel were 1,760 mg/kg at location SS-19 and 774 mg/kg at location SS-20 (both located adjacent to the north of the Transmission Line Property) while the remaining eight EPA samples, where lead was detected, had concentrations of lead consistently between 200 and 500 mg/kg (below the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs of 950 mg/kg). EPA also collected slag source samples (discussed above) which contained lead concentrations below 170 mg/kg. These data suggest that the fill material on the Transmission Line Property has consistently higher lead levels than both the Keddy Mill soil samples and the slag source samples and therefore appears to have a different lead chemical signature from the Keddy Mill parcel.

The extent of lead concentrations was contoured in surface soil and subsurface soil on the northern third of the Transmission Line Property as shown by Figures 8 and 9, respectively. The contours were generated based on lead data using the inverse distance weighted method in ARCMAP (version 10.1). This approach assumes there is a linear relationship between adjacent lead concentrations. Because the fill is heterogeneous, elevated lead concentrations may be present between sample locations that are not accounted for in the contouring.

Copper

While copper did not exceed the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at the Transmission Line Property, it may a useful compound in drawing distinctions between the fill material on the Site and the Keddy Mill parcel. The highest copper concentrations on the northern third of the Transmission Line Property were located at T-TP-7[0-1], T-TP-7[2-3] and T-GP-14[1.5-5.5] at 1,700 mg/kg, 1,700 mg/kg, and 3,200 mg/kg, respectively in both surficial and subsurface soil. These three locations are in the area of elevated lead concentrations and observed fill material. EPA's data presents copper ranging between 134 mg/kg and 251 mg/kg at SS-15 and SS-14, respectively

in Keddy Mill parcel soils. In EPA's slag source samples (discussed above), the highest copper concentration was 22,800 mg/kg (SO-04) followed by multiple samples in the low thousands mg/kg. These data suggest that while the fill material on the Transmission Line Property may have originated from the Keddy Mill parcel, the copper signature on the two properties are different. This distinction was drawn since the concentrations of copper in Keddy Mill soils are almost an order of magnitude below those found on the Transmission Line Property while the slag source samples from the Keddy Mill are almost two orders of magnitude higher. Copper (and cobalt) field screening data generated by MEDEP's Brownfields contractor several years ago were not evaluated due to concerns on data reliability and quality. This field screening data was generated through X-Ray Fluorescence (XRF) technology; a semi quantitative field screening method. This XRF data set is not supported by fixed base analytical methods to validate the field screening data.

In summary, the Keddy Mill impacts are higher for selected organic compounds (PAH, PCB, etc.) and lower for selected metals (lead, copper) than the Transmission Line Property. Whether these differences are due to operational histories or some other factor is not known. However this fact underscores that Sappi's property has a different chemical profile which may indicate the need for remedial options that would not be appropriate for Keddy Mill.

5.5 Potential Sources of Impacts

The potential sources of impacts for the Hydro Property and the Transmission Line Property are discussed below.

5.5.1 Hydro Property

Impacts on the Hydro Property are limited to the extreme western area of the property, the furthest from the Keddy Mill parcel, where benzo(a)pyrene and arsenic (see arsenic discussion below) were detected above the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs. This area was significantly reworked by Maine DOT during construction of the Route 202 Presumpscot River Bridge in the mid-2000s used as an equipment storage area and laydown yard during construction. In addition, benzo(a)pyrene is a common PAH associated with roadway use and asphalt. Since mill activities/structures are not known to have existed in this area of the Hydro Property, it is likely that soil impacts are due to Maine DOT construction practices, not Sappi/historical activities.

Over the central and eastern portions of the Hydro Property, fill below the ground surface was observed (including brick, concrete, glass, coal, ash, cinder, slag, and scrap metal) likely associated with the demolition of former mill structures that existed on the property. However, detected compounds in this area were below applicable Excavation or Construction Worker Scenario criteria.

5.5.2 Transmission Line Property

Elevated concentrations of lead, arsenic (see arsenic discussion below), benzo(a)pyrene, and one PCB (Aroclor 1254) were detected above the RAGs for the Excavation or Construction Worker Scenario on the northern third of the Transmission Line Property. These elevated chemical concentrations were detected in and around areas where fill material was observed on ground surface and in the subsurface during test pit and boring installation. This fill material was observed to include brick, concrete, glass, coal, ash, cinder, slag, leather, porcelain, scrap metal, and large industrial looking metal objects.

Sappi purchased the Transmission Line Property in 1974 and since there has not conducted any filling based upon available data. Furthermore, the age of the tree cover growing out of the fill material appears

to be 40 years or older (based on visual observations) as mature trees dominate the landscape, further substantiating the old age of the fill.

Based on these lines of evidence, it is likely that the fill material was in place at the time Sappi purchased the property from the Keddy Mill parcel, and in any event, Sappi did not contribute to its generation or placement. Therefore, it is likely that this fill material is a product of the operation of the Keddy Mill. While the fill material may have originated at the Keddy Mill, the different chemical signature (discussed above) highlights the distinction between this fill material and the fill materials found on the Keddy Mill parcel.

5.6 Arsenic and Background Concentrations in Maine

Arsenic was detected in soils at concentrations above the RAG criterion for the Outdoor Commercial Worker (4 mg/kg) scenario at 63 of 96 individual analytical sample locations ranging from 4.1 mg/kg to 57 mg/kg. However, only 19 of 96 individual analytical sample locations exceeded the Maine Background guidance value for arsenic of 15 mg/kg. Arsenic was detected above the RAG criterion for the Excavation or Construction Worker (42 mg/kg) scenario at 2 of 96 individual analytical sample locations (T-TP-5(8-9) and T-TP-9(3-4)).

TRC's sampling approach included not only the areas of visual fill impacts, but also areas of the Site where no visual fill impacts were observed. TRC considers these ten locations, which lack fill impacts, as background locations (T-HA-5, T-HA-9, T-GP-8, T-GP-9, T-GP-10, T-GP-11, T-GP-12, T-TP-8, T-TP-9, and T-TP-10). All background locations were located south of the observed fill material.

The results from these background locations suggest that arsenic levels in Site soils are not necessarily associated with fill materials. The second highest concentration of arsenic was detected at location T-TP-9(3-4) at 42 mg/kg, which is approximately 130 feet from the nearest observed fill impacts. At another background location, T-HA-5, arsenic was detected at 34 mg/kg, the fourth highest concentration detected out of the 96 individual analytical sample locations. Location T-HA-5 is located on Sappi property approximately 800 feet south of the observed fill materials. These concentrations are well within natural ranges for arsenic in certain Maine soils.

The arsenic concentrations of the background locations are generally higher in concentration than most of the arsenic concentrations from the area of visual fill impacts. Therefore, TRC concludes that the arsenic concentrations at the Site are the result of naturally occurring arsenic mineralogy or atmospheric deposition, not from the fill impacts on the Site.

Potential sources of arsenic are discussed below.

- Arsenic concentrations in soils may be attributable to natural mineral composition of bedrock (arsenopyrite, etc.) and its weathering. Bedrock at the Site is mapped as the Silurian - Ordovician Vassalboro formation which is known to consist of bluish-gray sandstone, quartzite and shale which can be altered to pyritiferous mica schists is locations. This metasedimentary rock with sulfide-bearing minerals (micas) has the possibility to create localized elevated concentrations of arsenic in soil as the bedrock weathers. Maine Geological Survey and others have documented arsenic's natural occurrence in Maine's soil and groundwater above published guidance values.

- A former freight rail line exists to the east of the Site which was in operation during the mid-19th to mid-20th centuries while coal was the primary fuel source. A byproduct of the combustion process of coal is arsenic (along with other heavy metals and PAHs) which would have been deposited in the area surrounding the tracks.

- Maine is located on the eastern seaboard of the United States. Over time, upper level winds have transported combustion byproducts (heavy metals, including arsenic, and PAHs) originating from coal and petroleum power generation and industry in the western and mid-western part of the country. This atmospheric deposition is widespread across all of New England.

- In New England, there is a high percentage of heating with alternative fuels (wood, pellets, coal (historically), etc.). Combustion of these fuels releases arsenic (along with other heavy metals and PAHs) which are frequently deposited in the surrounding downwind area.

5.7 Polychlorinated Biphenyl (PCBs) and the Toxic Substance Control Act (TSCA)

PCB Aroclor-1254 was detected in soil at one individual analytical sample locations (T-GP-7R[1-2.5]) at 8.4 mg/kg which is slightly above the RAG for the Excavation or Construction Worker (7 mg/kg) scenario. PCBs were not detected in soils above the RAG for Outdoor Commercial Worker (12 mg/kg) exposure scenario at any of the individual analytical sample locations. PCBs were detected above 1 mg/kg but below 7 mg/kg at five locations (T-TP-7[0-1], T-GP-5[0-1], T-GP-6[0-1], T-GP-7R[0-1], and T-GP-7R[1-2.5]).

EPA Guidance on Remedial Actions for Superfund Sites with PCB Contamination, Aug. 1990, indicates that the "preliminary remediation goal" for non-residential land use should be approximately 10-25 ppm total PCBs. The detected concentrations of PCBs at the site are below 10 ppm. In addition, even if the EPA *PCB Spill Cleanup Policy* were to apply, the cleanup level for a low occupancy area (like the transmission line property) is 25 ppm based upon 40 CFR. §§ 761.3 and 761.61(a)(4)(b). Again, concentrations of PCBs detected at the Site are well below 25 ppm.

The USEPA's TSCA regulates PCBs in certain materials and above certain concentrations. TSCA defines which PCB containing products are regulated in 40 CFR § 761.3. For this Site, PCB remediation waste would be the appropriate category if TSCA had jurisdiction.

For the PCBs detected in soil to be regulated as a PCB remediation waste, at least one of the following criteria must be met:

- Disposed prior to April 18, 1978 *and* is currently greater or equal to 50 mg/kg
- Original PCB source greater or equal to 500 mg/kg beginning on April 18, 1978 *and* currently any concentration greater or equal to 1 mg/kg
- Original PCB source greater or equal to 50 mg/kg beginning on July 2, 1979 *and* currently any concentration greater or equal to 1 mg/kg (after unauthorized uses established in the late 1970s/1980s)
- Any concentration if from an unauthorized use
- The owner or operator of a site containing PCB remediation waste has the burden of proving the date that the waste was placed in a land disposal facility, spilled, or otherwise released into the environment, and the concentration of the original spill.

Based on these criteria, the Site is not regulated under TSCA. Justification of this conclusion is provided in the summary table below.

Summary of TSCA Regulatory Classification Opinion for Soil							
Location	**Pre-1978 Disposal?**	**Number of soil samples >50 mg/kg**	**Original PCB source > 500 mg/kg after 4/18/78**	**Original PCB source > 50 mg/kg after 7/2/79**	**Number of soil samples >1 mg/kg**	**Associated with unauthorized use?**	**Post-1978 Disturbance of PCB Deposition?**
Little Falls - Transmission Line Property	Yes (Sappi purchased the property in 1974 and has not disposed of any materials on the property since acquisition)	0	No (Sappi has not disturbed/ modified the area of fill material since acquisition in 1974)	No (Sappi has not disturbed/ modified the area of fill material since acquisition in 1974)	5	No	None (Sappi has not disturbed/ modified the area since acquisition in 1974)

5.8 PCBs and Lead and the Maine Hazardous Waste Regulations

Maine hazardous waste regulations include PCBs as hazardous wastes at concentrations greater than 50 ppm, or if the source was greater than 50 ppm and diluted to lower levels. Maine DEP Regulations, Chapter 850 § 3(c)(2)(b). Maine hazardous waste rules would apply if Sappi had treated, stored or disposed of PCB wastes at 50 ppm (or diluted below 50 ppm) but Sappi has not treated, stored or disposed of wastes at that concentration (or diluted below that level). Based upon the weight of evidence, all PCBs were deposited before 1974 (which is well before the 1980 effective date of the Maine DEP hazardous waste rules), and were deposited by others.

In addition, lead in soil at one location at concentrations that exceeded the regulatory limit for the toxicity characteristic (5 ppm). Maine Regulations would prohibit that disposal if it had occurred after the effective date of the rules; specifically Maine hazardous waste regulations would apply and those soils could not be deposited or managed on the ground after the hazardous waste regulations became effective in 1980. However, the history of the site establishes that these soils were deposited before Sappi acquired the property in 1974, and they have not been handled since, thus they are not regulated as they sit in place.

6.0 HUMAN HEALTH RISK ASSESSMENT

This section provides a summary of the baseline human health risk assessment for the Little Falls Site, based on soil data collected in 2012 by TRC. The full Baseline Human Health Risk Assessment Report is included as Appendix C.

6.1 Background and Purpose

This baseline human health risk assessment was conducted using methodologies required by the Maine Department of Environmental Protection (MEDEP) risk assessment guidance (MEDEP, 2011), which directs that EPA risk assessment methodology (EPA, 1989; 1991a; 1991b; 1992; 2001; 2004; 2005; 2010; 2011b) should be used when a site-specific risk assessment is performed. Because this baseline risk assessment is intended to be site specific, site-specific information was incorporated into the evaluation whenever possible. However, in the absence of site-specific information, Maine-specific exposure assumptions (MEDEP, 2011) have been used preferentially over EPA standard default exposure assumptions, when available.

The focus of this risk assessment was the quantitative, and in some cases qualitative, evaluation of potential risks to human receptors who have the potential for current and/or future exposure to impacted soils.

The purposes of the baseline human health risk assessment were:

- ***Evaluation -*** To evaluate the potential human health risks that may be posed by impacted soil within currently accessible and future potentially accessible portions of the property; and
- ***Baseline -*** To provide a basis for decisions as to whether remedial action is necessary. This baseline risk assessment may also be used qualitatively to identify site conditions (chemicals, exposure pathways, locations) of greatest potential concern.

Three focus areas (exposure points) of the Site have been evaluated in the human health risk assessment, as described below:

- ***Hydro Property*** – This area conforms to the area previously described in this report;
- ***Transmission Line Property (Northern Third)*** – This area includes a subsection of the previously described Transmission Line Property and only includes approximately the northern third of this area. The focus area is bounded by the surface water drainage to the south; and
- ***South Bank Area*** – This area includes a small portion of the southern Transmission Line Property directly surrounding sampling location T-BANK-4.

For the purposes of this risk assessment and based upon discussions with Sappi, it is assumed that Land Use restrictions in the form of Uniform Environmental Covenants (UECs) will be implemented at the property to restrict use of the property to current uses in support of Sappi's production and distribution of electrical power. As such, the potential exposure scenarios are limited and include intermittent non-intrusive workers (i.e., outdoor workers who do not actively dig in the soil such as workers performing grass/weed control activities), indoor workers, intrusive workers, (i.e., outdoor workers who actively dig in the soil such as pole workers), and trespassers (which are discouraged by Sappi). Future uses of greater intensity and frequency than current uses (e.g., residential and park use) would be prohibited.

6.2 Identification of Current/Future Exposure Points and Receptors

6.2.1 Property Locations

Three locations were evaluated under this risk assessment, as summarized below:

- ***Hydro Property*** - Workers visit the Hydro Property to inspect the equipment inside the station and may periodically contact surface soil (0 to 2 feet in depth) in the driveway/parking lot area, or track surface soil contaminants into the facility where they may be contacted. Trespassers may occasionally access this area and contact surface soil contaminants. Surface soil exposure during non-intrusive activities has been evaluated (e.g., periodic weed/grass control activities), though these types of activities are not known to be occurring. No intrusive activities are currently occurring at this exposure point.

  Hypothetically, future improvements or repairs may require excavation or construction activities. Therefore, long-term construction-related exposures to surface soil and subsurface soil (0 to 15 feet) are quantitatively evaluated for the Hydro Property. Though underground utility work that would require exposures to short-term intrusive workers are most likely to occur at the Hydro Property, the long-term construction worker scenario has been used to conservatively evaluate the short-term intrusive worker scenario at this exposure point. Utility repair activities would require less than the 6-month exposure period assumed for the construction worker exposures.

- ***Northern Transmission Line Property*** - Non-intrusive workers may contact surface soil contaminants in the Northern Transmission Line Property during monthly inspection of the transmission lines, bimonthly patrolling for trespassers and annual tree trimming/branch grinding activities. Trespassers may access this portion of the property from the river bank or from the adjacent walking trail to the east and contact surface soil. No intrusive activities are currently scheduled to occur at this exposure point.

  Hypothetically, future improvements or repairs may require excavation or construction activities. Therefore, long-term construction-related exposures to surface soil and subsurface soil (0 to 15 feet) are quantitatively evaluated. Short-term intrusive work may also be required in the event of utility pole failures. Though pole failures may occur at a low frequency (one to two failures per year), it is assumed that the same workers perform these activities over the duration of their employment (24 days per year for up to 25 years). Contact with both surface and subsurface soil (0 to 15 feet in depth) would occur during the replacement activities.

- ***South Bank Area*** - Surface soil in the South Bank Area is most likely accessible to trespassers only since this area is located along the river bank, away from the transmission lines. However, it is assumed that non-intrusive workers may occasionally contact surface soil in this area during their routine inspections or while patrolling for trespassers. No intrusive activities currently occur at this exposure point.

  Hypothetically, future improvements or repairs may require excavation or construction activities. Therefore, long-term construction-related exposures to surface soil and subsurface soil (0 to 15 feet) are quantitatively evaluated. Though this area is along the river bank and away from the transmission line, short-term intrusive work has also been evaluated, consistent with the Northern Transmission Line Property.

6.2.2 Exposure Pathways

Trespassers, non-intrusive workers and indoor workers may be exposed to surface soil contaminants via incidental ingestion and dermal contact. Due to the lack of intrusive activities performed by these receptors, the inhalation of fugitive dust is considered negligible and has not been quantitatively evaluated.

Short-term intrusive workers and long-term construction workers may be exposed to surface and subsurface soil contaminants via incidental ingestion, dermal contact and inhalation of fugitive dust. Because the contaminants present in soil are not considered volatile in nature (high molecular weight PAHs, heavy petroleum hydrocarbon fractions and metals), the inhalation of vapors released from soil during intrusive work is not evaluated as a complete exposure pathway.

Under the assumption that deeper soils are brought to the surface and mixed with the surface soils, the same receptors evaluated for exposures to surface soil under current conditions (i.e., trespassers, indoor workers and non-intrusive workers) have also been evaluated for exposures to both surface and subsurface soil under future conditions.

Groundwater was not encountered during the investigation as previously discussed. In addition, Leaching to Groundwater Guidelines were not exceeded indicating that if groundwater were present at the Site, it likely would not be significantly impacted. There is no potable or non-ingestion use of groundwater at the property. The power generation facility is connected to the municipal water supply. Sappi intends to prohibit all extraction/use of groundwater in the future with a UEC.

Default MEDEP exposure assumptions as specified in the risk assessment guidance (MEDEP, 2011) have been used for the trespasser, indoor worker and long-term construction worker scenarios. Site-specific exposure assumptions have been used for the non-intrusive and intrusive worker, based on conservative estimates of activities known to be occurring at the Site.

6.3 Selection Chemicals of Potential Concern (COPCs)

Chemicals of Potential Concern (COPCs) were selected for quantitative evaluation in the risk assessment by comparing maximum detected concentration of each chemical in soil at each exposure point to Residential Soil Regional Screening Levels (RSLs) published by EPA (EPA, 2012), as specified in the Maine Risk Assessment Guidance. RSLs are risk-based concentrations that are intended to assist risk assessors and others in initial screening-level evaluations of environmental contaminant concentrations. RSLs are chemical concentrations back-calculated using toxicity criteria and either a $1x10^{-6}$ target risk level for potential carcinogens or a hazard quotient (HQ) of 1 for non-carcinogens. For purposes of this screening analysis, a HQ of 0.1 was used to add a ten-fold measure of safety to reduce the chance of omitting chemicals from the list of COPCs that could contribute to a total hazard index (HI) of 1. To accomplish this, RSLs for non-carcinogenic chemicals were divided by 10 prior to comparison to maximum detected values. Background was not used for screening COPCs; therefore, arsenic was retained as a COPC even though concentrations in soil are likely representative of regional background levels.

6.4 Calculation of Exposure Point Concentrations (EPCs)

Exposure Point Concentrations (EPCs) used for risk estimation were typically the 95% Upper Confidence Limit (UCL) on the arithmetic mean concentration. The 95% UCLs were calculated using EPA's program ProUCL Statistical Software Version 4.1 (EPA, 2011a). For small data sets (typically less than nine samples), the maximum detected COPC concentration was used as the EPC. When the 95% UCL

value for a COPC exceeded the maximum detected concentration because of small sample sizes or high data set variability, the maximum detected COPC concentration was used as the EPC.

6.5 Toxicity Assessment

Toxicity data used in this assessment are those used by MEDEP in the development of the Remedial Action Guidelines (MEDEP, 2013). Primary sources for these toxicity values are the EPA Integrated Risk Information System on-line database (EPA, 2013), the EPA Superfund Technical Support Center, the Massachusetts Department of Environmental Protection (MassDEP, 2003), the California Environmental Protection Agency, and the Agency for Toxic Substances and Disease Registry.

6.6 Risk Characterization

Non-carcinogenic risk is estimated by means of a Hazard Quotient (HQ). The sum of the HQs for all chemicals within an exposure point and pathway that have the same target organ or type of toxicity is termed the pathway HI. In general, HIs that are less than 1 are not of regulatory concern; however, a HI of greater than 1 does not automatically indicate that an adverse effect will occur and should not automatically be interpreted as posing an unacceptable risk to the exposed population.

The cancer risk for each receptor is estimated by means of an Incremental Lifetime Cancer Risk (ILCR). MEDEP indicates that where the cumulative ILCR for a receptor is less than 10^{-5}, and where the non-carcinogenic HI is less than 1, action generally is not warranted unless there are adverse environmental impacts.

An overall summary of cancer risk and non-cancer hazard estimates for each of the evaluated scenarios and pathways for each exposure point listed above is presented in Table 8. Receptors evaluated include indoor workers at the Hydro Property, older child trespassers, non-intrusive workers, and long-term (6-month) construction workers at all three exposure points, and intrusive workers (24 days/year for 25 years) at the Northern Transmission Line Property and South Bank Area. The selected receptors conservatively represent current land use at the Site. In addition, and the risk assessment evaluated a default long-term excavation or construction worker, should Sappi chose to not restrict this type of activity in the future.

Estimated cumulative incremental lifetime cancer risks (ILCRs) and non-carcinogenic hazard indices (HIs) for each receptor were compared to MEDEP's target cancer risk of 10^{-5} and non-carcinogenic HI of 1. Risks were not summed across the exposure points since the parameter values used assume maximal exposures as each exposure point. This approach assumes that an individual would not be maximally exposed to soil at more than one exposure point.

6.6.1 Hydro Property

The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the Hydro Property. Receptors evaluated include indoor workers, older child trespassers, non-intrusive workers, and long-term (6-month) construction workers.

6.6.2 Transmission Line Property (Northern Third)

The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the northern portion of the Little Falls Transmission Line Property. Receptors evaluated include older child trespassers, non-intrusive workers, long-term (6-month) construction workers and intrusive workers (24 days/year for 25 years).

Because lead was selected as a COPC for soil at this exposure point, adult and older child lead exposures were evaluated using the methodology provided by USEPA (2003a; 2009). For adult and older child exposures for soil, the calculated blood lead concentration in women of childbearing age did not exceed the goal of 4.2 ug/dL for current and future land use, except for the default future 6-month construction worker where adult exposures could result in fetal blood lead levels in excess of blood lead level goals. Long-term construction worker exposures could be controlled using Land Use Restrictions to prevent long-term construction projects in the northern portion of the Transmission Line Property. No unacceptable risks were estimated for intrusive workers at this area of the Site, assuming 24 days of exposure per year for 25 years.

6.6.3 Transmission Line Property (South Bank Area)

The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the South Bank Area of the Transmission Line Property. Receptors evaluated include older child trespassers, non-intrusive workers, long-term (6-month) construction workers, and intrusive workers (24 days/year for 25 years).

7.0 FINDINGS AND CONCLUSIONS

TRC conducted a detailed, comprehensive characterization of the surface and subsurface soils and fill materials at the Site. Based on these activities, TRC has developed the following findings and conclusions.

7.1 Hydro Property

- Groundwater was not encountered in test pits, soil borings or other sampling locations on the Hydro Property.
- Leaching to Groundwater Guidelines were not exceeded indicating that if groundwater were present at the Hydro Property, it likely would not be significantly impacted. No potential drinking water receptors were identified.
- Sappi intends to prohibit groundwater extraction and use for any purpose through a Uniform Environmental Covenant (deed restriction).
- Fill material (including brick, coal, ash, cinder, slag and metal) is present in the subsurface at the Hydro property at depths up to 10.5 feet below ground surface (bgs) and is likely associated with the demolition of the former structures.
- Analytical testing of this fill material indicates it is generally inert, with few analytes present above detection limits and/or RAGs.
- Two analytes were detected at concentrations that exceeded a published Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs including; benzo(a)pyrene and arsenic. Comparison to these RAGs guidelines was performed only to frame the discussion and not to provide an indication of risk to human health at the Site.
- Observed arsenic concentrations are interpreted to be indicative of local background concentrations as discussed in the CSM (See Section 5.6 above).
- Benzo(a)pyrene was detected in the western portion of the Hydro Property, the presence of which appears to be related to the Route 202 and/or MEDOT activities. This PAH was encountered at concentrations up to 12 kg/kg, which exceeds a RAG concentration for Outdoor Commercial Worker. However, these elevated concentrations are encountered deeper than 2.5 feet below ground, and were not exposed at the ground surface.
- PCBs were only detected in one sample, H-TP-4[0-1], located on the eastern end of the Hydro Property, and at concentrations well below 1 ppm. No onsite PCB source was identified.
- Lead was encountered at 750 mg/kg which is well above background concentrations, but below the RAGs.
- The relatively minor observed chemical impacts at the Hydro Property do not suggest an onsite source area or hot spot, but are more likely related to ubiquitous impacts from long term activities around Route 202.
- As demonstrated in the Human Health Risk Assessment, none of the organic or inorganic analytes detected at the Hydro Property presents an unacceptable risk to the trespasser, indoor worker, non-intrusive outdoor worker or MEDEP default excavation or construction worker.
- Because of the apparent inert characteristics of the fill material, and the relatively low concentrations of various target analytes detected in both surface and subsurface soils, and because the existing conditions do not pose undue risk to site workers (based on the human health

risk assessment), no remedial actions are recommended. This conclusion assumes that a Uniform Environmental Covenant (deed restriction) will be put in place to keep the Site in current commercial or industrial land use and to prevent residential development or use as an active or passive recreational park.

7.2 Transmission Line Property

- Groundwater was not encountered in test pits or soil borings on the Transmission Line Property.
- Leaching to Groundwater Guidelines were not exceeded indicating that if groundwater were present at the Transmission Line Property, it likely would not be significantly impacted. No potential drinking water receptors were identified.
- Sappi intends to prohibit groundwater extraction and use for any purpose through a Uniform Environmental Covenant (deed restriction).
- Fill material at the surface and subsurface was observed to contain slag, coal, ash, concrete, bricks, leather, porcelain, metal, and industrial metal objects.
- Fill material appears to extend laterally from the Keddy Mill parcel in the north approximately 500-feet south down the Transmission Line Property. The western extent is bounded by the Presumpscot River. The eastern extent is not fully defined as fill material was observed by EPA in two surface soil samples on the Keddy Mill parcel to the east of Sappi's property.
- Fill material appears to extend vertically from exposed fill at the surface to approximately 10-feet bgs at its thickest point (T-TP-1). As one travels south along the Transmission Line Property, the fill material varies approximately between one foot and five feet in thickness.
- Fill material was observed along the bank and in the shallow water of the Presumpscot River. Fill in this area consisted primarily of heaver materials that could roll down slope (e.g.: slag, concrete, bricks, metal, etc.).
- Several analytes were detected at concentrations that exceeded a published Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs including; benzo(a)pyrene, PCBs (Aroclor 1254), lead, and arsenic. Comparison to these RAGs guidelines was performed only to frame the discussion and not to provide an indication of risk to human health at the Site.
- Observed arsenic concentrations are interpreted to be indicative of local background concentrations as discussed in the CSM (See Section 5.6 above).
- Benzo(a)pyrene was the only PAH detected above Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs at 5.3 mg/kg (T-TP-1[8-10]) at the Transmission Line Property in subsurface soil. However, these elevated concentrations are encountered deeper than 8 feet below ground, and were not exposed at the ground surface.
- PCBs were detected in 16 samples, however only one sample location, T-GP-7R[0-1], exceeded the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAG of 7 mg/kg at 8.4 mg/kg (Aroclor 1254). This sample was located on the eastern side of the Transmission Line Property between the power line and the property line in surficial soil. No current onsite PCB source was identified.
- Lead was detected at concentrations exceeding the Outdoor Commercial Worker and/or Excavation or Construction Worker Scenarios RAGs of 950mg/kg at six locations (T-TP-5[0-1] - 1,300 mg/kg, T-TP-7[0-1] - 2,800 mg/kg, T-TP-7[2-3] - 5,000 mg/kg, T-GP-2[2-6] - 1,500 mg/kg, T-GP-14[0-1] - 4,300 mg/kg, T-GP-14[0-1] - 3,400 mg/kg) in both surficial and subsurface soil.

- Three samples were analyzed for TCLP lead. Lead was detected at all these locations; however, only one of the three exceeded hazardous waste equivalency limits. Location T-GP-14(1.5-5.5) lead was detected at 17 ppm which is above the applicable USEPA regulatory limits of 5 ppm.
- The concentration of lead on Site correlates well with the lateral distribution of fill material. Vertically, however, some of the highest concentrations of lead on the Site were collected from visual native looking soils directly beneath the fill material, suggesting localized leaching of lead into underlying soils may have occurred.
- Based on the visual and analytical data gathered during this investigation, chemical impacts to soil seem to correlate well with the horizontal extent of the visual fill material.
- A recent report for the Keddy Mill parcel identified cobalt as a potential COC using XRF technology. TRC collected 96 individual analytical sample locations from the Site over two rounds and analyzed them for TAL metals, which includes the metal cobalt. TRC's samples were submitted to a fixed analytical laboratory (using a method considered more reliable than XRF) and the subsequent data subjected to data usability review by our internal QA/QC chemist. Cobalt was not detected above RAGs at the Site.
- None of the organic or inorganic analytes detected at the Transmission Line Property presents an unacceptable risk to the trespasser, non-intrusive worker, intrusive worker or MEDEP default excavation or construction worker except for lead, which poses an unacceptable risk using the MEDEP six month default exposure scenario for a long-term excavation or construction worker. The human health risk assessment concluded that no unacceptable risk was posed for the current limited activities likely to be conducted by Sappi's short-term excavation or construction workers. Long-term construction worker exposures could be controlled using Land Use Restrictions to prevent long-term construction projects in the northern portion of the Transmission Line Property.
- Sappi purchased the Transmission Line Property in 1974 and has not deposited fill material. The age of the mature trees which grow out of the fill materials appear to be 40 years or older (based on visual observations). It is assumed that the fill material was in place at the time Sappi purchased the property from the Keddy Mill parcel. Therefore, Sappi did not contribute to fill material's generation or placement. While the fill material may have originated at the Keddy Mill, the different chemical signature (discussed in the CSM in Section 5 above) highlights the distinction between this fill material and the fill materials found on the Keddy Mill parcel.
- Due to the characteristics of the fill material and the relatively low concentrations of various target analytes detected in both surface and subsurface soils, and because the existing conditions do not pose undue risk to site workers; no remedial actions are required. This conclusion assumes that a Uniform Environmental Covenant (deed restriction) will be put in place to keep the Site in current commercial or industrial land use and to prevent residential development. However, discussions with Sappi indicate a desire to stabilize and improve the Site conditions and undertake some level of remediation as a good management practice for site workers and trespassers. In addition, Sappi intends to generate and maintain a Soils Management Plan, also as a good management practice.

7.3 Human Health Risk Assessment

TRC conducted a baseline human health risk assessment for the Little Falls Site, based on soil data collected in 2012. The focus of this risk assessment was the quantitative, and in some cases qualitative, evaluation of potential risks to human receptors that have the potential for current and/or future exposure to impacted soils. The risk assessment concluded:

- *Hydro Property -* The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the Hydro Property.
- *Transmission Line Property (Northern Third) –* The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the northern portion of the Transmission Line Property. Lead was determined to potentially pose a risk for the MEDEP default excavation or construction worker. Long-term construction worker exposures could be controlled using Land Use Restrictions to prevent long-term construction projects in the northern portion of the Transmission Line Property. No unacceptable risks were estimated for intrusive workers at this area of the Site, assuming 24 days of exposure per year for 25 years.
- *Transmission Line Property (South Bank Area) –* The cumulative ILCRs and HIs are below risk management criteria for all scenarios evaluated at the South Bank Area of the Transmission Line Property.

8.0 FEASIBILITY ANALYSIS AND REMEDIAL OPTIONS

The following section describes the feasibility analysis and remedial options to effectively address impacts at the Transmission Line Property (Northern Third) evaluated in the human health risk assessment. The feasibility analysis follows the first seven criteria in the National Contingency Plan (NCP) in 40 CFR 300.430. State and community acceptance are not evaluated as a criteria since state and community acceptance may be addressed through MEDEP approval under VRAP. Also, current practice includes "Green Remediation" as an additional criterion. Based on the assumed implementation of land use controls, the results of the human health risk assessment and current Conceptual Site Model, remedial options are not needed or proposed for the Hydro Property and not discussed further in this section.

8.1 Remedial Goals

Remedial goals are used for evaluating and choosing remedial alternatives; they should comply with applicable or relevant and appropriate requirements (ARARs) and result in residual risks that are consistent with protection of human health and the environment and Sappi's risk management best practices. Therefore, remedial goals are based on both risk-based concentrations, ARARs, and prudent business practices. The base for considering ARARs in this process is provided in Appendix F.

The human health risk assessment (Section 6) determined that the cumulative ILCRs and HIs are below risk management criteria for the scenarios evaluated at the northern portion of the Transmission Line Property. Receptors evaluated include older child trespassers, non-intrusive workers (24 days/year for 25 years), long-term (6-month) construction workers and intrusive workers (24 days/year for 25 years). Considering 1) the only receptor that is at risk is the future long-term construction worker, 2) exposures to this receptor could be controlled using institutional controls to prevent long-term construction projects, and 3) no unacceptable risks were estimated for the likely activities conducted by intrusive workers at this area of the Site (assuming 24 days of exposure per year for 25 years), Sappi is considering remediation of lead concentrations that are considered to be "hazardous" under Maine's hazardous waste regulations. However, there is a limited data set (three samples) that have been subject to TCLP analysis. It is recognized that additional TCLP lead data points are necessary to determine the volume of soil meeting the definition of "hazardous" based on a comparison of total lead levels to TCLP levels. For the purposes of this analysis, total lead concentrations in soil which exceed 2,000 mg/kg are considered as potentially "hazardous" under TCLP testing, and may be generally useful as a target for focused remediation.

8.2 Feasibility Analysis Overview

Initially TRC identified seven alternatives for screening and comparison using the criteria in the NCP:

- No Action
- Environmental Covenant
- Soil Cover/Environmental Covenant
- RCRA Subtitle C Landfill Cover/Environmental Covenant
- On-site Treatment (Chemical Fixation)/Environmental Covenant
- Limited Removal/Environmental Covenant
- Limited Removal/Cover/Environmental Covenant

The remedial alternatives are described with the feasibility analysis in Table 9. The analysis follows the first seven criteria in the NCP in 40 CFR 300.430; the remaining criteria- state and community acceptance would be determined at a later date. Also, "Green Remediation" was included as an additional criterion for consideration in the analysis. The criteria used for comparison follow:

- Overall Protection of Human Health and the Environment
- Compliance with ARARs
- Long-term Effectiveness and Permanence
- Reduction in Toxicity, Mobility through Treatment
- Short-Term Effectiveness
- Implementability
- Green Remediation
- Cost

To facilitate comparison of remedial alternatives TRC made several observations and assumptions (summarized below):

1. A lead concentration of 2,000 mg/kg and above was considered as potentially "hazardous";
2. These levels occur as a "spot" in the southern portion of the northern third of the Transmission Line property, within both surface soil (0 to 2 feet bgs – Figure 8), and subsurface soil (2 feet bgs to refusal - Figures 9);
3. The approximate area of contaminated soil is estimated to be approximately 5,000 square feet;
4. For on-site treatment and offsite disposal alternatives is estimated as approximately 732 cubic yards, calculated from Figures 8 and 9; and
5. The extent of fill materials (containing glass, klinkers, etc.) observed in the Transmission Line Property is estimated as 1.1 acres.

These observations and assumptions were used for estimating costs for the two alternatives that included a soil cover. Detailed cost calculations for five alternatives that included remedial construction as provided in Appendix E; the costs of the remaining two alternatives "no action" and "environmental covenant" were estimated based on professional judgment. Operations, monitoring, and reporting requirements for the five remedial alternatives are considered to be reasonable "ball park" estimates for these costs; a present worth analysis was not performed.

The following alternatives were retained as remedial options for further evaluation:

- ***Option A*** **-** Limited Removal/Cover/Environmental Covenant
- ***Option B*** **-** Soil Cover/Environmental Covenant
- ***Option C*** **-** Environmental Covenant

These three options include an Environmental Covenant to reduce risk to human receptors; in addition, Option A and Option B include a soil cover as part of Sappi's best management approach for the site, and to minimize worker exposure to site soils. Also, Option A provides elimination or reduction of toxicity and mobility associated with the lead "hot spot". The remaining alternatives in the alternative analysis were excluded from further evaluation because they did not include a soil cover and did not eliminate or reduce toxicity and mobility of lead.

8.3 Remedial Options

Three remedial options were selected for further evaluation to address impacts to soil at the Transmission Line Property (northern third). The evaluation is based on the results of the feasibility analysis (see Table 9), the Phase II Site Characterization and the current/future industrial use of the property. While the human health risk assessment indicates that risk is below regulatory guidelines for current receptors, and future risk can be controlled using a UEC, the remedial goals are to consider ARARs, apply best

management practices to minimize direct contact with select soils, and to manage the soils which exhibit the toxicity characteristic.

A general description of each of the options is presented below followed by a summary table comparing the advantages and disadvantages of the three options.

8.3.1 Option A: Limited Removal / Soil Cover / Environmental Covenant

This option consists of limited soil removal, soil cover (1.1 acres), and an Environmental Covenant. Work includes a topographic survey, a predesign investigation, site preparation, fill material removal, and soil cover construction. The purpose of the soil cover is to implement Sappi's best management practices by minimizing direct contact with select soils and stabilizing the remaining soils in place. The purpose of the limited soil removal is to permanently address soils that may exhibit the toxicity characteristic. The predesign investigation will include collection of soil samples for lead analysis and TCLP lead to better delineate the volume of lead-impacted soil for removal, determine if the impacted materials can be segregated into hazardous or nonhazardous. The volume of limited soil removal is currently estimated as 732 cy based on estimated extent of lead in soil exceeding 2,000 mg/kg depicted on Figures 8 and 9. A design will be required for the soil cover. Periodic inspections would be required annually or semiannually to document the condition of the cover and verify the cover is stable and not eroding.

To reduce exposure and ensure reduction of human health risk for potential future uses, an Environmental Covenant will be needed to limit future site use to current usage (based on the risk assessment). In addition, the Environmental Covenant would limit recurrent intrusive activities (including, pole replacement) and non-intrusive outdoor activities to 24 days per year or less. A site-specific Occupational Safety & Health Administration (OSHA) compliant health and safety plan and a soil management plan would be adopted to protect workers exposed to hazardous substances.

8.3.2 Option B: Soil Cover / Environmental Covenant

This option consists of a soil cover (1.1-acres), and an Environmental Covenant. The purpose of the soil cover is to implement Sappi's best management practices by minimizing direct contact with impacted soils and ground surface debris. Vegetation will be cleared, the site graded, impacted materials will be consolidated in the area where hazardous waste (elevated lead in soil) exists, and a 2-foot thick soil cover placed over the Site and seeded. Please note, that no moving or managing of hazardous waste will be undertaken.

An Environmental Covenant would be adopted to limit intrusive and non-intrusive activities conducted to 24 days per year or less. A site-specific OSHA compliant health and safety plan would be adopted to protect workers. A soil management plan would be adopted prior to soil excavation. Periodic inspections would be required annually or semiannually to document the condition of the cover.

8.3.3 Option C: Environmental Covenant

In this scenario, an Environmental Covenant will be adopted to limit activities at the Site to those currently occurring and to limit construction or excavation activities to a duration of 24 days per year or less. A health and safety plan with PPE use would be adopted to protect workers in accordance with Sappi's policies and OSHA requirements. A soil management plan will be required for excavation and disposal of soil. This option does not achieve Sappi's best management practice of minimizing potential worker and trespasser exposures. Additionally, this option does nothing to better the environment through reduction in contamination mass or elimination of an exposure pathway.

8.3.4 Remedial Option Summary

Option A allows for continued current uses of the northern third of the Transmission Line Property, including intrusive work for 24 days per year or less, protects ecological receptors from direct contact with soil, and addresses soils with the toxicity characteristic; however, disposal of the lead impacted soil material elevates costs as compared to other options.

Option B allows for continued current uses of the northern third of the Transmission Line Property, including intrusive work for 24 days per year or less, and protects ecological receptors from direct contact with the soil. Soils meeting the toxicity characteristic will not be managed, and thus RCRA is not applicable, but leaving hazardous waste in soils would not meet the relevant and appropriate requirement of RCRA, if a CERCLA NCP approach were followed.

Option C is the lowest cost and is protective assuming an Environmental Covenant is implemented to limit uses of the northern third of the Transmission Line Property to those currently occurring, but does not take other steps to minimize exposure or permanently address soils with the toxicity characteristic or other impacted soils.

8.3.5 Environmental Permitting Considerations

Environmental permits will be required for remedial options A and B. Examples of permits that may be needed are provided below.

- *Shoreland Zoning Permit* - The Town of Windham will require a Shoreland Zone Permit for soil disturbance of more than 10 cubic yards within 250 feet of the river or a stream and certain freshwater wetlands. The Town of Windham Shoreland Zoning Ordinance requires a narrative and design drawings as part of the permit application as well as a possible public hearing.

- *Stormwater Permit for Construction* – The MEDEP will require a Stormwater Permit for construction activities that disturb 1 acre or more of land. A detailed erosion and sedimentation control plan with site-specific drawings will be required.

- *Natural Resource Protection Act (NRPA) Permit* – The MEDEP will require a full NRPA permit for remedial work within 25 feet of the normal high water mark of the river, a stream or certain wetlands. Design drawings; an erosion control plan, alternatives analysis and resource functions and values assessment; and other documentation are typically required to complete the permit package. A reduced level of NRPA permitting may be required if all disturbance is more than 25 feet from these resources. Any NRPA permit requires a field delineation of wetlands and potential vernal pools to determine if the vernal pool is "significant" and therefore regulated under the NRPA. Otherwise disturbance within 250 feet of any vernal pool identified on the property or a significant vernal pool that is mapped on the Maine DIFW website is assumed to be regulated. TRC conducted a vernal pool survey of the Sappi property in the spring of 2013 and no vernal pools were identified.

- *U.S. Army Corps of Engineers Permit* - The U.S. Army Corps of Engineers will require a permit if construction activities are undertaken below the normal high water mark of a water body or a wetland, which potentially would then pull in clearing/ground disturbance within 750 feet of any vernal pool identified on the property or within 750 feet of a vernal pool that is mapped on the Maine DIFW website.

8.3.6 Environmental Permitting Considerations

As discussed above, ARARs were considered in evaluating various remedial alternatives. Appendix F provides more details on this topic, however in summary, Options A and B meet *applicable* ARARs for chemical specific, location specific and action specific considerations. Option B and C would not meet the specific RCRA hazardous waste *relevant and appropriate* ARAR for hazardous waste left in soils, if a CERCLA NCP approach were followed.

Option C meets most applicable criteria, but because it does not include active maintenance of the site in the future, it is unclear if this alternative would meet Maine State Surface Water Quality Criteria, to the extent that there were future releases of "pollutants" (dirt or debris). Specifically, because the site is located on a bank of the Presumpscot River that will be subject to erosion, there could be a potential release of impacted soils to the river at some point in the future that would not be detected since there are no routine inspections to look for changes in site conditions included in Option C but there are in Options A and B.

For the purposes of a comparison, we considered a "No Action" alternative for the site. This alternative basically assumes that the site remains in its current state with no remediation taking place, no covenants are placed on future site use and there is no maintenance of the site. A No Action alternative does not meet several ARARs and is considered not protective for that reason, indicating that some form of remedy is needed for the site.

9.0 RECOMMENDATIONS

Based on the results of the Phase II Site Characterization Report and Remedial Options Analysis, TRC recommends Remedial Option B as the most cost efficient yet effective means to stabilize the site for the long term and reduce risk. This option will leave lead-impacted soils in place, such that future excavation in these areas will need proper planning and management, but for general site operations, the presence of these impacts will not require PPE or any special safety considerations. Periodic inspections would be conducted under this option to look for changes in site conditions.

10.0 PROPOSED IMPLEMENTATION SCHEDULE

The current proposed implementation schedule for the recommended Remedial Option B is to start the permitting and remedial design process in the fall of 2013 continuing into the spring of 2014. The bid package generation and contractor selection process could occur during the summer of 2014. Construction could commence in the late summer of 2014 and be completed by the end of November 2014. Final vegetative site restoration may be needed in the spring of 2015 depending on if disturbed soil can be permanently stabilized prior to winter conditions taking hold.

The above proposed implementation schedule is based on our current understanding of the scope for implementing Remedial Option B and internal budgetary considerations. This schedule is meant as a starting point. Many factors exist that may affect the speed of the project; including but not limited to seasonal considerations, regulatory approvals, budgetary considerations, etc.

11.0 REFERENCES

MassDEP, 2003. Updated Petroleum Hydrocarbon Fraction Toxicity Values for the VPH/EPH/APH Methodology. November 2003.

MEDEP, 2011. Guidance for Human Health Risk Assessments for Hazardous Substances Sites in Maine. http://www.maine.gov/dep/spills/publications/guidance/index.html February 2011.

MEDEP, 2013. Remedial Action Guidelines Calculations Public Review Draft March 11, 2013. http://www.maine.gov/dep/ftp/RAGS/Comparison%20to%20prior%20draft%20and%20Basis%20Docs/ March 2013.

Nobis, 2012 *Field Task Work Plan for Soil and Sediment Sampling, Keddy Mill, Windham, Maine*. Prepared for USEPA, Prepared by Nobis Environmental LLC, dated: July 10, 2012.

TRC, 2012a *Phase I Environmental Site Assessment, Little Falls Site, Hydro & Transmission Line Properties*. Prepared for Sappi (S.D. Warren Company), Prepared by TRC Environmental Corporation, dated September 6, 2012.

TRC, 2012b *Sampling Plan, Upland Portion of the Sappi Little Falls Hydro & Transmission Line Properties*. Prepared for Sappi (S.D. Warren Company), Prepared by TRC Environmental Corporation, dated: September 2012.

U.S. Environmental Protection Agency (EPA). 1989. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual. Part A.* Interim Final. EPA/540/1-89/002. December 1989.

U.S. Environmental Protection Agency (EPA). 1991a. *Risk Assessment Guidance for Superfund: Volume I Human Health Evaluation Manual* (PART B, Development of Risk-Based Preliminary Remediation Goals) Interim EPA/540/R-92/003, Publication 9285.701B, December 1991.

U.S. Environmental Protection Agency (EPA). 1991b. *Human Health Evaluation Manual, Supplemental Guidance: "Standard Default Exposure Factors"*. Office of Solid Waste and Emergency Response. Washington, D.C. OSWER Directive 9285.6-03. Memo from Timothy Fields, Jr. June 25, 1991.

U.S. Environmental Protection Agency (EPA). 1992. *Supplemental Guidance to RAGS: Calculating the Concentration Term.* Office of Solid Waste and Emergency Response. Washington, D.C. Publication 9285.7-081. May 1992.

U.S. Environmental Protection Agency (EPA). 1994. *Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities.* Office of Solid Waste and Emergency Response. Washington, D.C. OSWER Directive 9355.4-12. July 1994.

U.S. Environmental Protection Agency (EPA). 1997. *Health effects assessment summary tables, FY-1997 annual (HEAST).* Office of Health and Environmental Assessment. Environmental Assessment and Criteria Office and Office of Solid Waste and Emergency Response. Washington, D.C. July 1997.

U.S. Environmental Protection Agency (EPA). 2001. *Risk assessment guidance for Superfund. Volume I: Human health evaluation manual. Part D, Standardized planning, reporting, and review of Superfund risk assessments. Final.* Office of Solid Waste and Emergency Response. Washington, D.C. December 2001.

U.S. Environmental Protection Agency (EPA). 2002. *Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites.* OSWER 9285.6-10 Office of Emergency and Remedial Response, Washington, DC. December 2002.

U.S. Environmental Protection Agency (EPA). 2003a. *Recommendations of the Technical Review Workgroup for lead for an approach to assessing risk associated with adult exposures to lead in soil.* Technical Review Workgroup for Lead. United States Environmental Protection Agency. January 2003.

U.S. Environmental Protection Agency (EPA). 2003b. *Assessing Intermittent or Variable Exposures at Lead Sites.* OSWER 9285.7-76. Office of Solid Waste and Emergency Response, Washington, DC. November 2003.

U.S. Environmental Protection Agency (EPA). 2004. *Risk assessment guidance for Superfund Volume I: Human health evaluation manual (Part E, Supplemental guidance for dermal risk assessment), interim guidance.* Office of Superfund Remediation and Technology Innovation. Washington, D.C. EPA/540/R/99/005. July 2004.

U.S. Environmental Protection Agency (EPA). 2005. *Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens*. EPA/630/R-03/003F. March 2005.

U.S. Environmental Protection Agency (EPA). 2009. *Update of the adult lead methodology's default baseline blood lead concentration and geometric standard deviation parameters.* Technical Review Workgroup for Lead. Office of Superfund Remediation and Technology Innovation. June 2009.

U.S. Environmental Protection Agency (EPA). 2011a. *ProUCL Version 4.1 for Environmental Applications for Data Sets with and without Nondetect Observations.* Prepared for EPA by Lockheed Martin Environmental Services. March 2011.

U.S. Environmental Protection Agency (EPA). 2011b. *Exposure factors handbook.* Office of Research and Development. Washington, D.C. September 2011.

U.S. Environmental Protection Agency (EPA). 2012. *Regional Screening Levels.* http://www.epa.gov/region9/superfund/prg/. November 2012.

U.S. Environmental Protection Agency (EPA). 2013. *Integrated risk information system (IRIS).* Environmental Criterion and Assessment Office. March 2013.

U.S. Geologic Survey (USGS). 1984. *"Element Concentrations of Soils in Other Surficial Materials of the Conterminous United States" USGS Professional Paper 1270, by H.T. Shacklette and J.G. Boerngen. 1984.*

12.0 LIMITATIONS

1. TRC's study was performed in accordance with generally accepted practices by practicing environmental professionals conducting similar studies at the same time and in the same geographical area, and TRC observed that degree of care and skill was generally exercised by other consultants under similar circumstances and conditions. TRC's findings and conclusions must be considered not as scientific certainties, but rather as professional opinion concerning the significance of the limited data gathered during the course of the study. Figures showing extent of fill, or chemical impacts are interpretative and subject to revision as additional data become available. No other warranty, express or implied, is made.

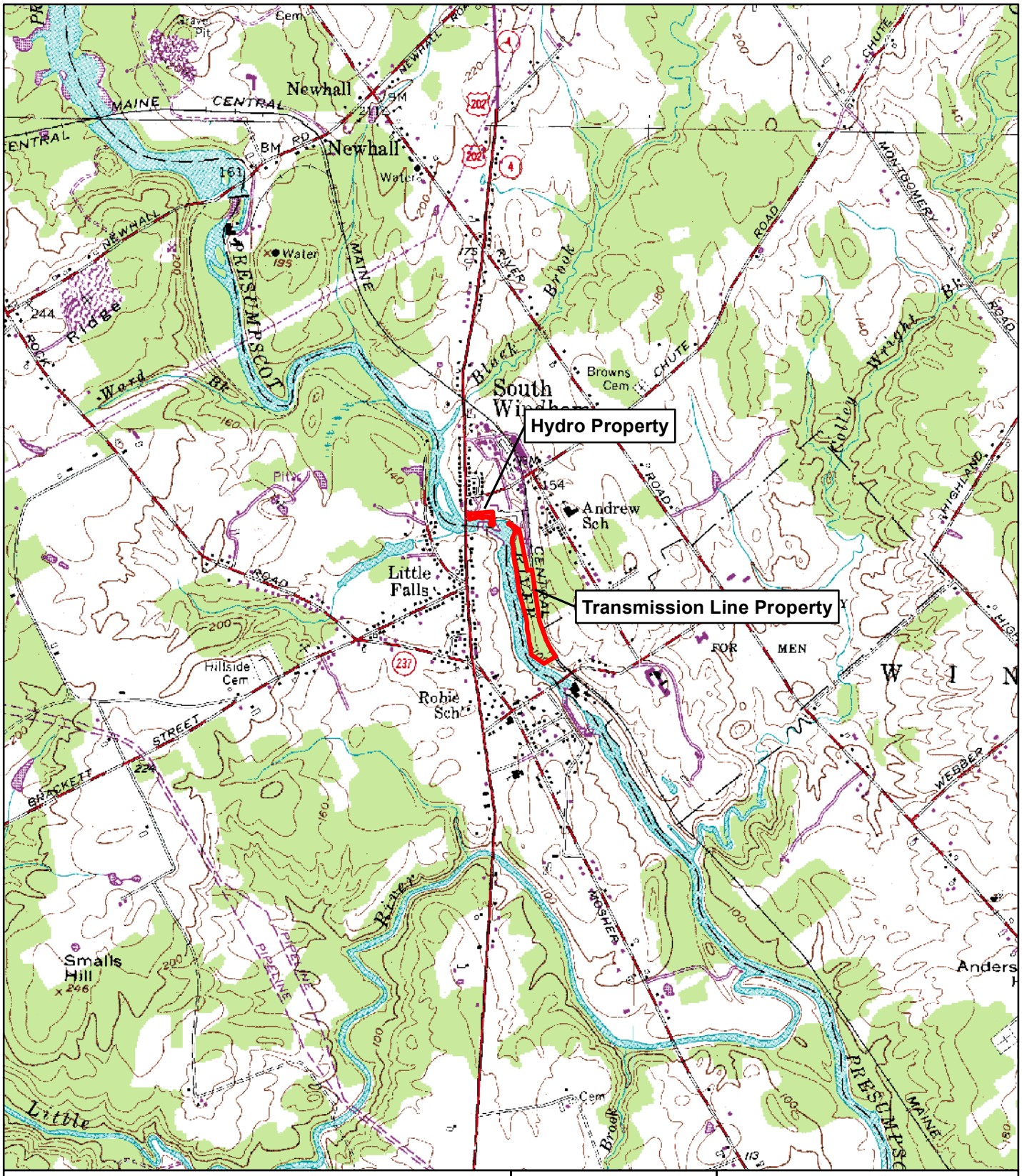
2. This study and report have been prepared on behalf of and for the exclusive use of the Owner and the Client, solely for use for the subject area.

3. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions referenced in our proposal to the Client or in accordance with any modifications approved by the Client.

4. In the event that the Client or others authorized to use this report obtain information on environmental or hazardous waste issues at the subject property not contained in this report, such information shall be brought to TRC's attention forthwith. TRC will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

5. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state, or local laws and regulations, environmental or otherwise.

FIGURES



Approximate Site Boundary

N

Gorham and North Windham 7.5-Minute USGS Topographic Quadrangles

0 1,000 2,000 Feet

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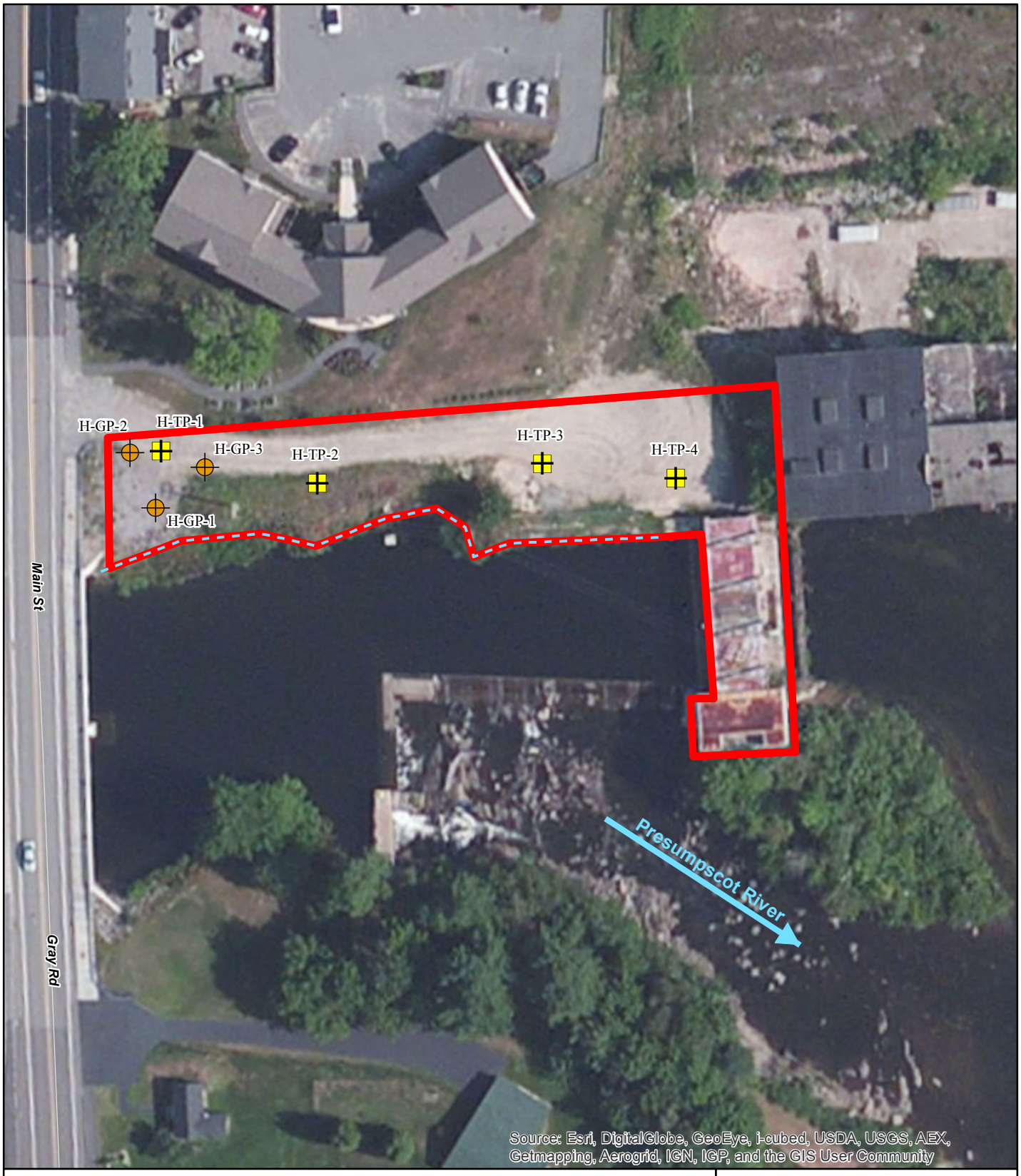
SITE LOCATION PLAN

LITTLE FALLS HYDRO AND TRANSMISSION LINE

WINDHAM AND GORHAM, MAINE

FIGURE 1	DATE: 5/3/2013

S:\Projects\TRCAugusta\191981_Keddy_Mill\mxd\2013_01\Fig1_SiteLocus_2013-04-03.mxd



Geoprobe Boring/Soil Sample Location

Test Pit/Soil Sample Location

Approximate Site Boundary

Presumpscot River Flow Direction

Surveyed Presumpscot River Bank

N

0 50 100 Feet

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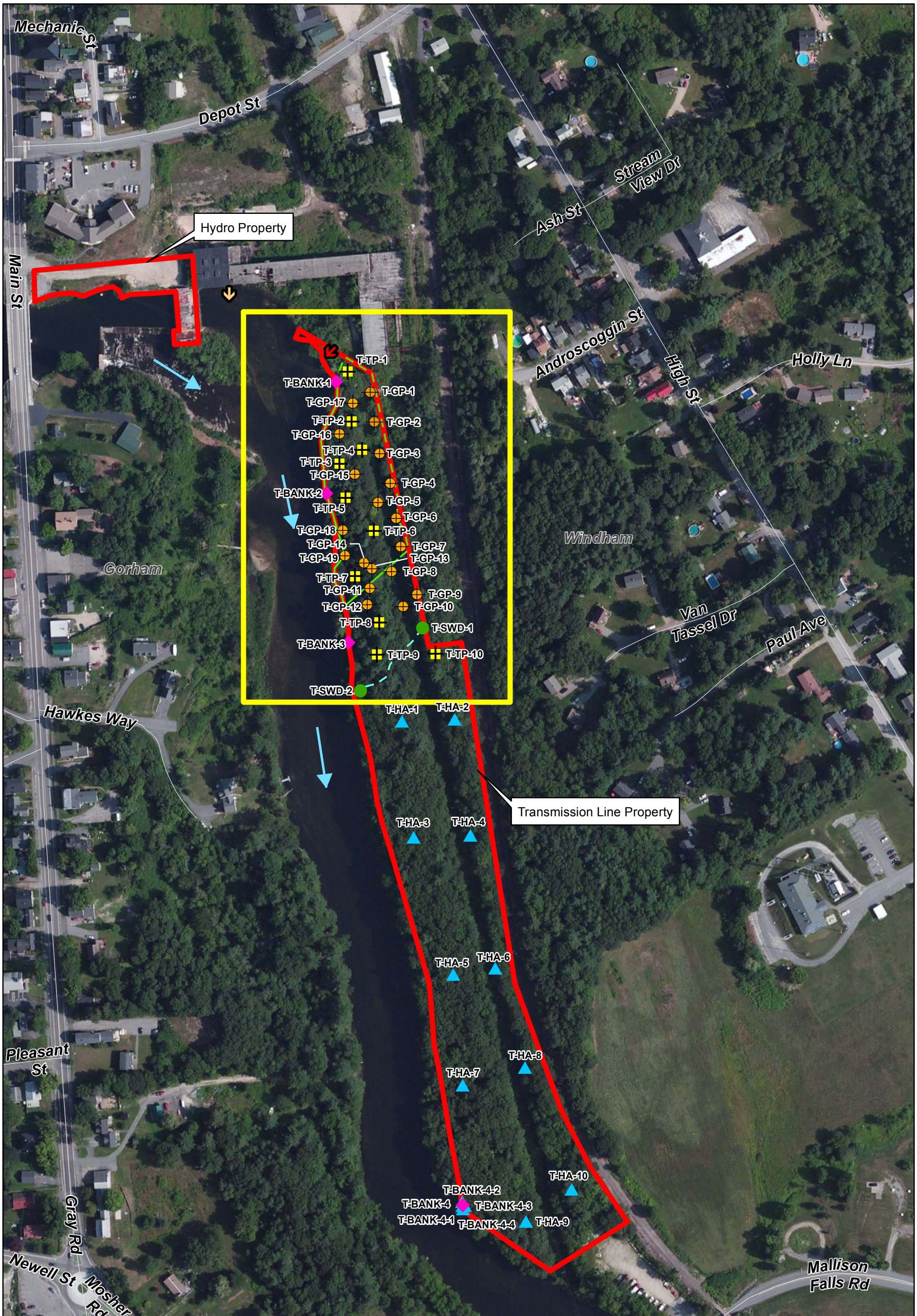
GENERAL FEATURES PLAN
HYDRO PROPERTY

WINDHAM, MAINE

FIGURE 2 | DATE: 5/3/2013

S:\Projects\TRCAugusta\191981_Keddy_Mill\mxd\2013_01\Fig2_HydroProp_2013-04-02.mxd



Approximate Site Boundary
Hand Auger Sampling Location
Surface Water Drainage Sample Location
Riverbank Sample Location
Test Pit/Soil Sample Location
Geoprobe Boring/Soils Sample Location

Presumpscot River Flow Direction
Likely Extent of Fill
Observed Extent of Fill
Surface Water Drainage Feature
Figure 4 Inset

6" PVC Pipe/ Flow Direction
Historic Cooling Water Pipe

N

0 200 400 Feet

Orthosphotography Source: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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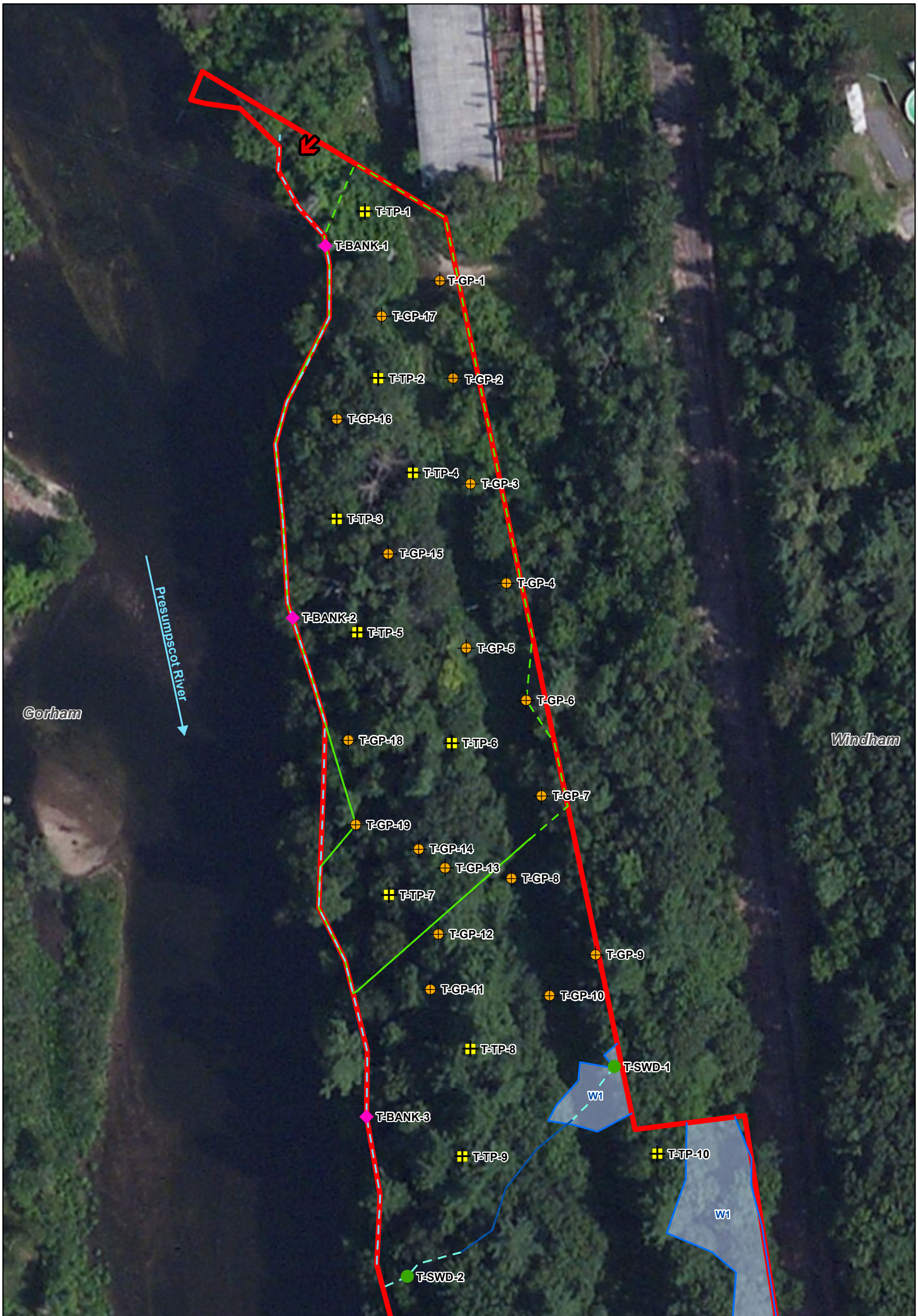
GENERAL FEATURES PLAN
TRANSMISSION LINE PROPERTY
WINDHAM, MAINE

FIGURE 3 | Date: 5/3/2013



Approximate Site Boundary
Surface Water Drainage Sample Location
Riverbank Sample Location
Test Pit/Soil Sample Location
Geoprobe Boring/Soils Sample Location
6" PVC Pipe/ Flow Direction

Likely Extent of Fill
Observed Extent of Fill
Surface Water Drainage Feature
Presumpscot River Flow Direction

Surveyed Wetland
Wetland Delineation Line
Surveyed Presumpscot River Bank
Surveyed Intermittent Stream

N

0 50 100 Feet

Orthosphotography Source: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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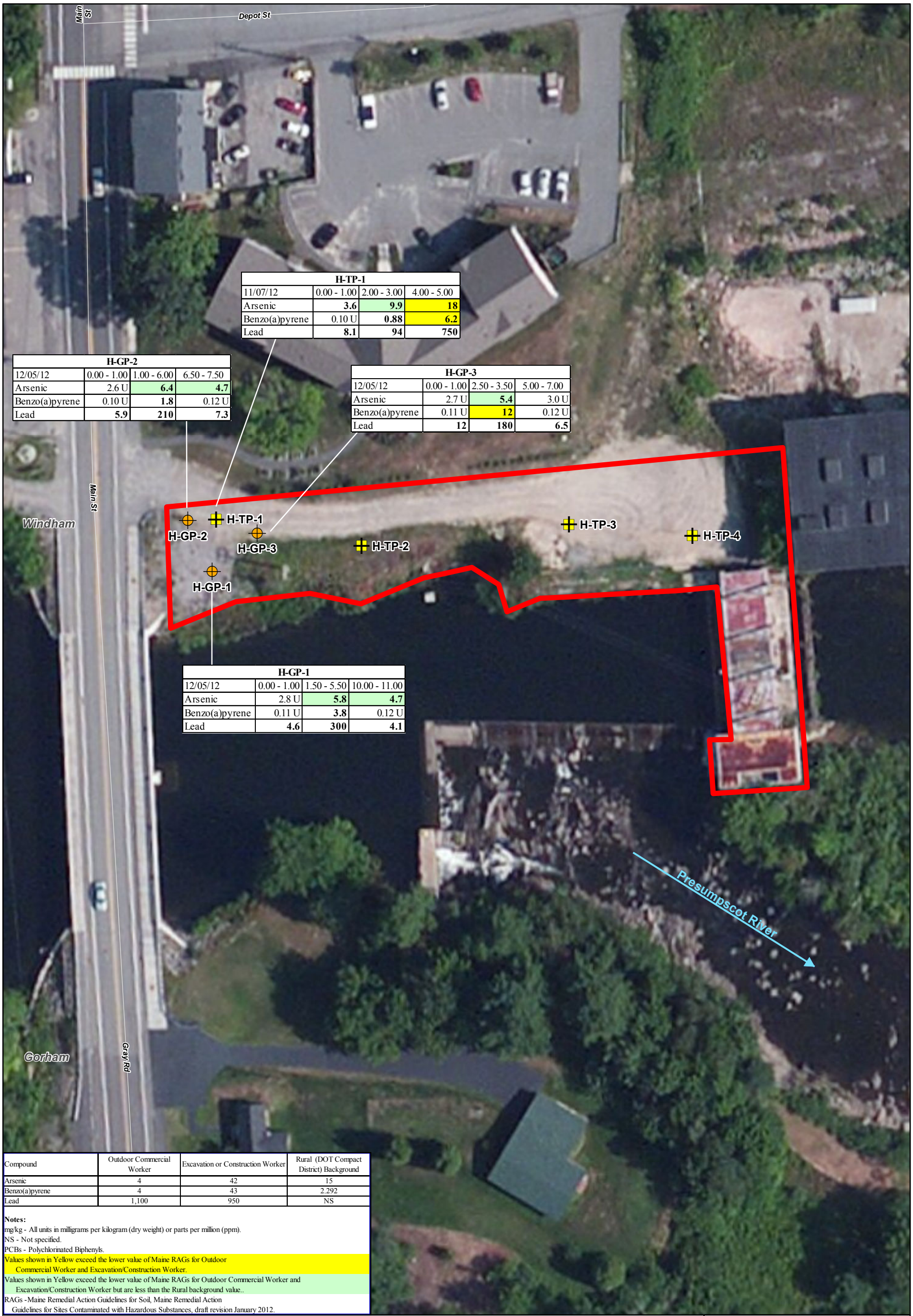
GENERAL FEATURES PLAN
TRANSMISSION LINE PROPERTY (NORTHERN THIRD)
WINDHAM, MAINE

FIGURE 4 | Date: 5/3/2013



H-TP-1			
11/07/12	0.00 - 1.00	2.00 - 3.00	4.00 - 5.00
Arsenic	**3.6**	**9.9**	**18**
Benzo(a)pyrene	0.10 U	**0.88**	**6.2**
Lead	**8.1**	**94**	**750**

H-GP-2			
12/05/12	0.00 - 1.00	1.00 - 6.00	6.50 - 7.50
Arsenic	2.6 U	**6.4**	**4.7**
Benzo(a)pyrene	0.10 U	**1.8**	0.12 U
Lead	**5.9**	**210**	**7.3**

H-GP-3			
12/05/12	0.00 - 1.00	2.50 - 3.50	5.00 - 7.00
Arsenic	2.7 U	**5.4**	3.0 U
Benzo(a)pyrene	0.11 U	**12**	0.12 U
Lead	**12**	**180**	**6.5**

H-GP-1			
12/05/12	0.00 - 1.00	1.50 - 5.50	10.00 - 11.00
Arsenic	2.8 U	**5.8**	**4.7**
Benzo(a)pyrene	0.11 U	**3.8**	0.12 U
Lead	**4.6**	**300**	**4.1**

Compound	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District) Background
Arsenic	4	42	15
Benzo(a)pyrene	4	43	2.292
Lead	1,100	950	NS

Notes:
mg/kg - All units in milligrams per kilogram (dry weight) or parts per million (ppm).
NS - Not specified.
PCBs - Polychlorinated Biphenyls.
Values shown in Yellow exceed the lower value of Maine RAGs for Outdoor Commercial Worker and Excavation/Construction Worker.
Values shown in Yellow exceed the lower value of Maine RAGs for Outdoor Commercial Worker and Excavation/Construction Worker but are less than the Rural background value..
RAGs -Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances, draft revision January 2012.

Approximate Site Boundary
Test Pit/Soil Sample Location
Geoprobe Boring/Soils Sample Location
Presumpscot River Flow Direction

Orthosphotography Source: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

N

0 50 100 Feet

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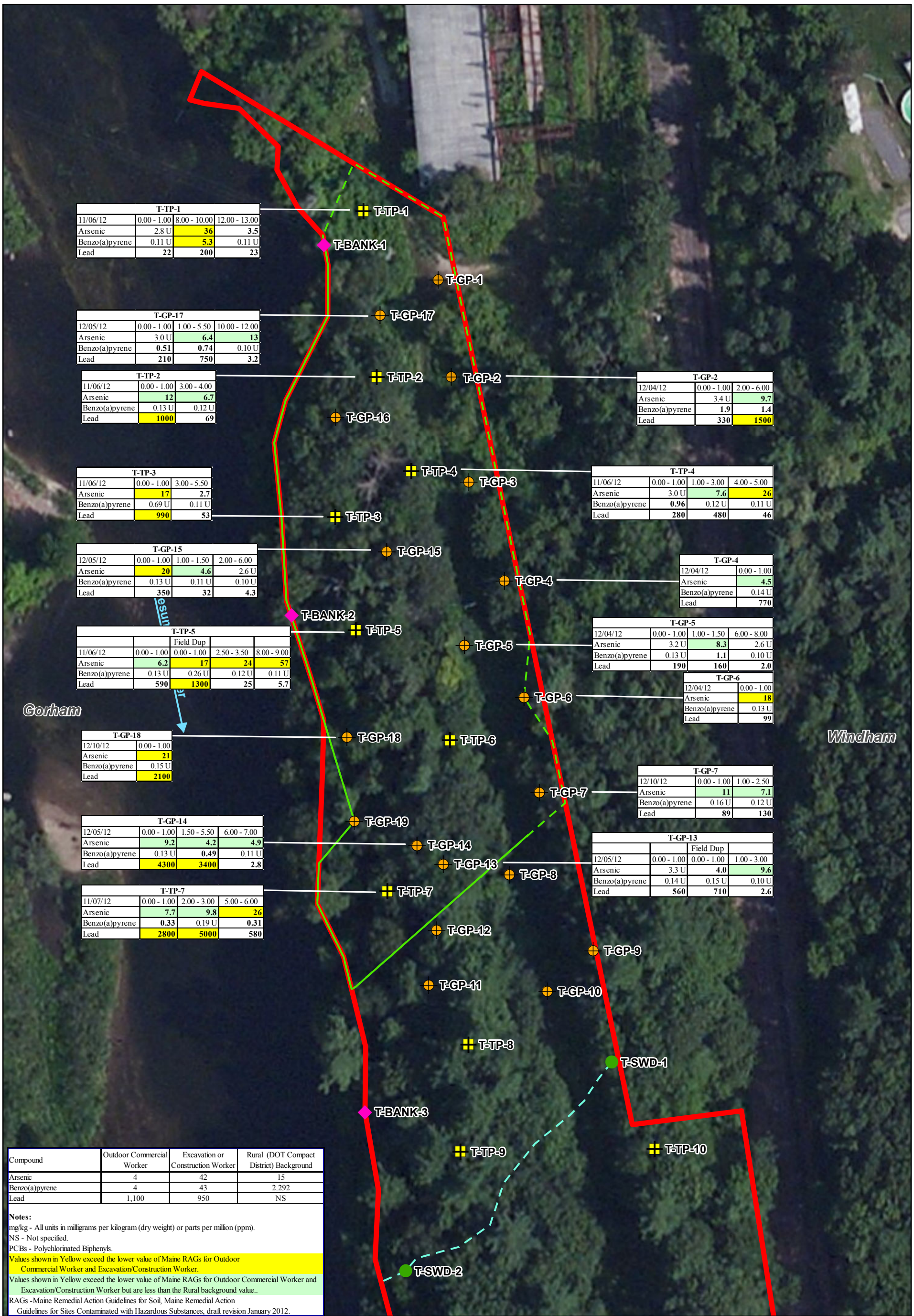
INDICATOR CHEMICAL COMPOUND ANALYTICAL RESULTS

HYDRO PROPERTY

WINDHAM, MAINE

FIGURE 5 | Date: 5/3/2013

S:\Projects\TRCAugusta\191981_Keddy_Mill\mxd\2013_01\Fig5 Tables Hydro Res 11x17 2013-01-24.mxd



T-TP-1			
11/06/12	0.00 - 1.00	8.00 - 10.00	12.00 - 13.00
Arsenic	2.8 U	36	3.5
Benzo(a)pyrene	0.11 U	5.3	0.11 U
Lead	22	200	23

T-GP-17			
12/05/12	0.00 - 1.00	1.00 - 5.50	10.00 - 12.00
Arsenic	3.0 U	6.4	13
Benzo(a)pyrene	0.51	0.74	0.10 U
Lead	210	750	3.2

T-TP-2		
11/06/12	0.00 - 1.00	3.00 - 4.00
Arsenic	12	6.7
Benzo(a)pyrene	0.13 U	0.12 U
Lead	1000	69

T-GP-2		
12/04/12	0.00 - 1.00	2.00 - 6.00
Arsenic	3.4 U	9.7
Benzo(a)pyrene	1.9	1.4
Lead	330	1500

T-TP-3		
11/06/12	0.00 - 1.00	3.00 - 5.50
Arsenic	17	2.7
Benzo(a)pyrene	0.69 U	0.11 U
Lead	990	53

T-TP-4			
11/06/12	0.00 - 1.00	1.00 - 3.00	4.00 - 5.00
Arsenic	3.0 U	7.6	26
Benzo(a)pyrene	0.96	0.12 U	0.11 U
Lead	280	480	46

T-GP-15			
12/05/12	0.00 - 1.00	1.00 - 1.50	2.00 - 6.00
Arsenic	20	4.6	2.6 U
Benzo(a)pyrene	0.13 U	0.11 U	0.10 U
Lead	350	32	4.3

T-GP-4	
12/04/12	0.00 - 1.00
Arsenic	4.5
Benzo(a)pyrene	0.14 U
Lead	770

T-TP-5				
		Field Dup		
11/06/12	0.00 - 1.00	0.00 - 1.00	2.50 - 3.50	8.00 - 9.00
Arsenic	6.2	17	24	57
Benzo(a)pyrene	0.13 U	0.26 U	0.12 U	0.11 U
Lead	590	1300	25	5.7

T-GP-5			
12/04/12	0.00 - 1.00	1.00 - 1.50	6.00 - 8.00
Arsenic	3.2 U	8.3	2.6 U
Benzo(a)pyrene	0.13 U	1.1	0.10 U
Lead	190	160	2.0

T-GP-6	
12/04/12	0.00 - 1.00
Arsenic	18
Benzo(a)pyrene	0.13 U
Lead	99

T-GP-18	
12/10/12	0.00 - 1.00
Arsenic	21
Benzo(a)pyrene	0.15 U
Lead	2100

T-GP-7		
12/10/12	0.00 - 1.00	1.00 - 2.50
Arsenic	11	7.1
Benzo(a)pyrene	0.16 U	0.12 U
Lead	89	130

T-GP-14			
12/05/12	0.00 - 1.00	1.50 - 5.50	6.00 - 7.00
Arsenic	9.2	4.2	4.9
Benzo(a)pyrene	0.13 U	0.49	0.11 U
Lead	4300	3400	2.8

T-GP-13			
		Field Dup	
12/05/12	0.00 - 1.00	0.00 - 1.00	1.00 - 3.00
Arsenic	3.3 U	4.0	9.6
Benzo(a)pyrene	0.14 U	0.15 U	0.10 U
Lead	560	710	2.6

T-TP-7			
11/07/12	0.00 - 1.00	2.00 - 3.00	5.00 - 6.00
Arsenic	7.7	9.8	26
Benzo(a)pyrene	0.33	0.19 U	0.31
Lead	2800	5000	580

Compound	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District) Background
Arsenic	4	42	15
Benzo(a)pyrene	4	43	2.292
Lead	1,100	950	NS

Notes:
mg/kg - All units in milligrams per kilogram (dry weight) or parts per million (ppm).
NS - Not specified.
PCBs - Polychlorinated Biphenyls.
Values shown in Yellow exceed the lower value of Maine RAGs for Outdoor Commercial Worker and Excavation/Construction Worker.
Values shown in Yellow exceed the lower value of Maine RAGs for Outdoor Commercial Worker and Excavation/Construction Worker but are less than the Rural background value..
RAGs -Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances, draft revision January 2012.

Approximate Site Boundary
Surface Water Drainage Sample Location
Riverbank Sample Location
Test Pit/Soil Sample Location
Geoprobe Boring/Soils Sample Location
Likely Extent of Fill
Observed Extent of Fill
Surface Water Drainage Feature
Presumpscot River Flow Direction

Orthosphotography Source: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

0 50 100 Feet

N

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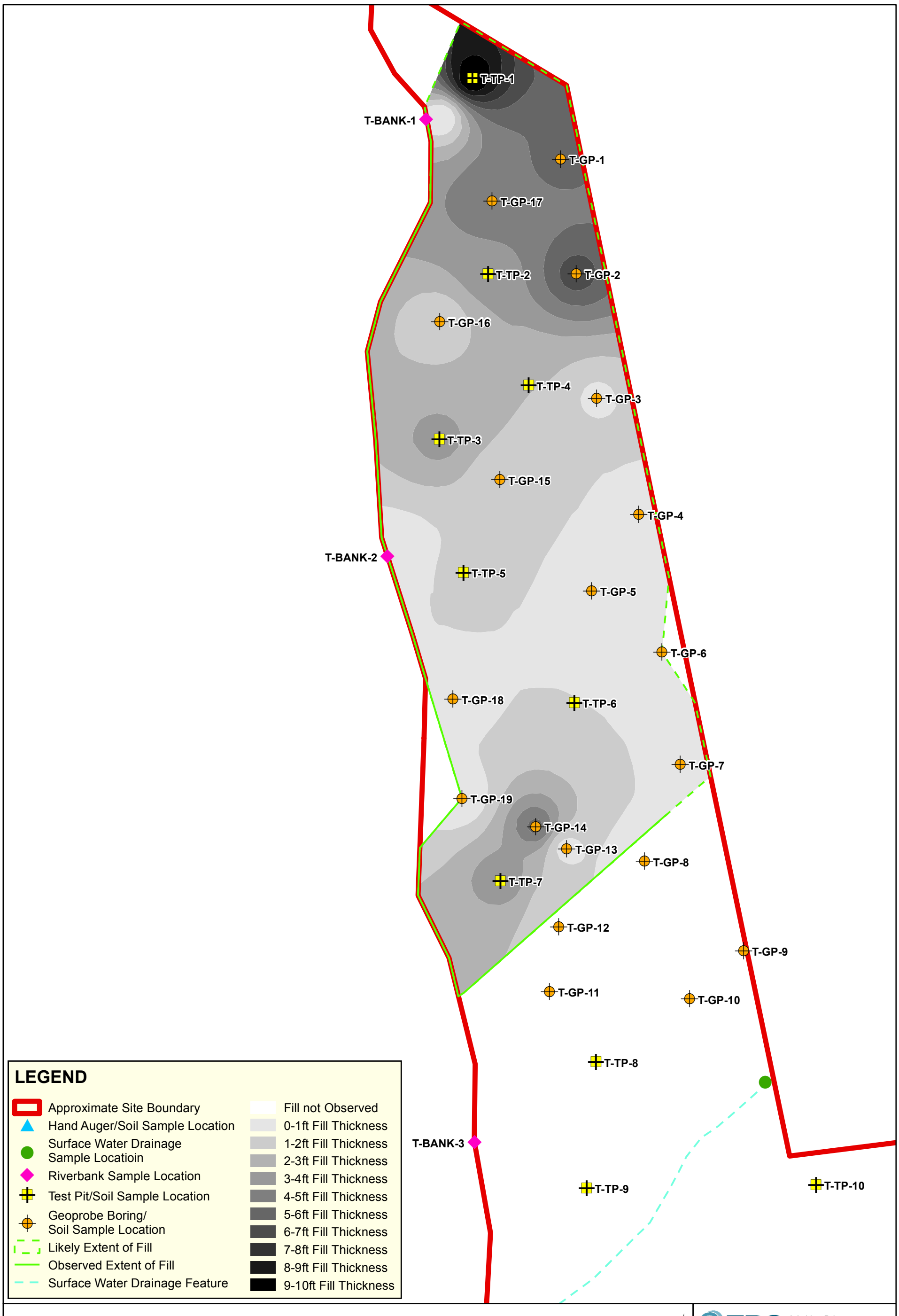
INDICATOR CHEMICAL COMPOUND ANALYTICAL RESULTS

TRANSMISSION LINE PROPERTY (NORTHERN THIRD)

WINDHAM, MAINE

FIGURE 6 | Date: 5/3/2013



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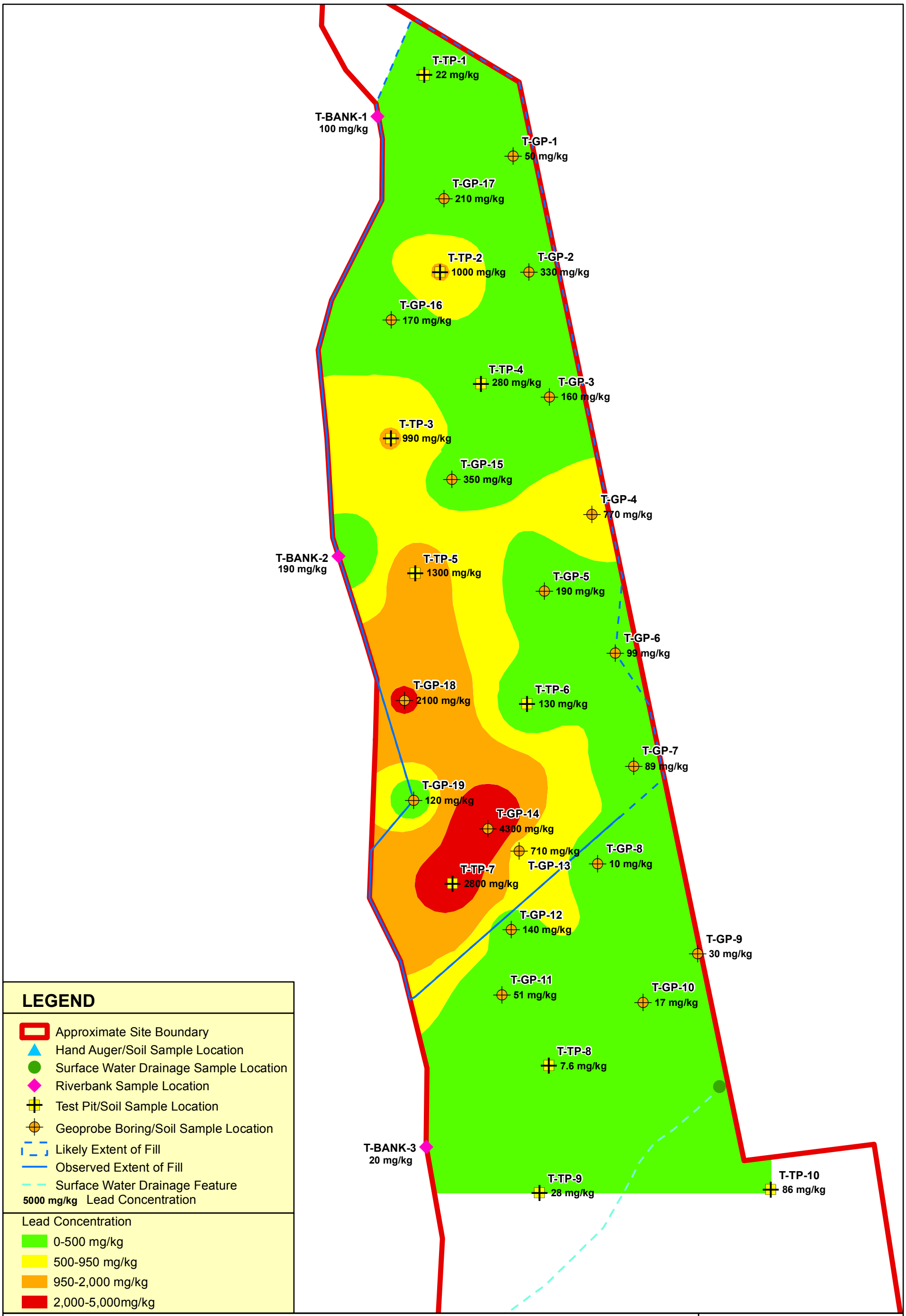
INTERPRETIVE FILL THICKNESS CONTOURS

TRANSMISSION LINE PROPERTY (NORTHERN THIRD)

WINDHAM, MAINE

FIGURE 7 | Date: 5/3/2013



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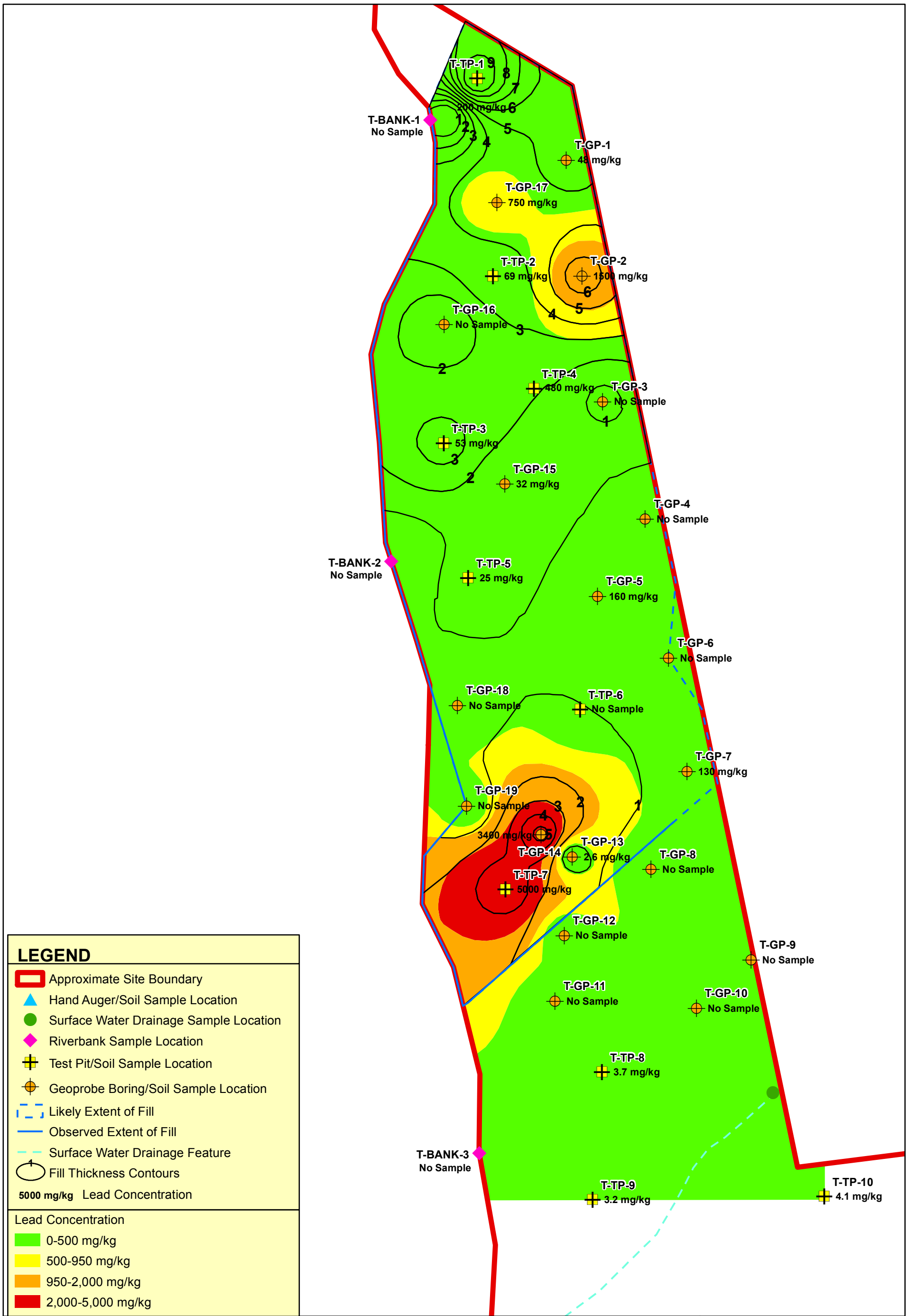
INTERPRETIVE
LEAD ISOCONCENTRATION CONTOURS
SURFACE SOIL (0-2FT)

TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)

WINDHAM, MAINE

FIGURE 8 | Date: 5/3/2013



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INTERPRETIVE
LEAD ISOCONCENTRATION CONTOURS
SUBSURFACE SOIL (>2FT)

TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)

WINDHAM, MAINE

FIGURE 9 | Date: 5/3/2013

TABLES

Table 1
Summary of Analytical Results for Hydro Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background													
						Sample ID:	**H-TP-1**			**H-TP-2**	**H-TP-3**			**H-TP-4**				
						Sample Depth (ft.):	0-1	2-3	4-5	0-1	0-1	2-4	4-5	0-1	0-1	5-6	12-14
						Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
															Field Dup		
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																		
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	10 U	11 U	26 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	10 U	**28**	**88**	11 U	10 U	10 U	**31**	**27**	**32**	11 U	12 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	10 U	**42**	**250**	**29**	10 U	10 U	**26**	10 U	10 U	11 U	**16**
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.10 U	0.11 U	**0.31**	0.11 U	0.10 U	0.10 U	**0.13**	0.10 U	0.10 U	0.11 U	0.12 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.10 U	**0.16**	**1.4**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.10 U	**0.19**	**0.90**	0.11 U	0.10 U	0.10 U	**0.24**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.10 U	**0.65**	**4.5**	**0.37**	0.10 U	0.10 U	**0.65**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.10 U	**0.88**	**6.2**	**0.41**	0.10 U	0.10 U	**0.72**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.10 U	**1.3**	**9.7**	**0.60**	0.10 U	0.10 U	**0.87**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.10 U	**0.63**	**4.3**	**0.36**	0.10 U	0.10 U	**0.39**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.10 U	**0.42**	**3.2**	**0.19**	0.10 U	0.10 U	**0.30**	0.10 U	0.10 U	0.11 U	0.12 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.10 U	**0.99**	**7.9**	**0.46**	0.10 U	0.10 U	**0.70**	0.10 U	0.10 U	0.11 U	0.12 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.10 U	**0.19**	**1.2**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.10 U	**1.7**	**13**	**0.95**	0.10 U	0.10 U	**1.6**	0.10 U	0.10 U	0.11 U	0.12 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.10 U	**0.13**	**0.78**	0.11 U	0.10 U	0.10 U	**0.13**	0.10 U	0.10 U	0.11 U	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.10 U	**0.72**	**5.0**	**0.44**	0.10 U	0.10 U	**0.49**	0.10 U	0.10 U	0.11 U	0.12 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.10 U	0.11 U	**0.27**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.10 U	0.11 U	**0.42**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.10 U	**1.1**	**5.9**	**0.51**	0.10 U	0.10 U	**1.2**	0.10 U	0.10 U	0.11 U	0.12 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.10 U	**1.6**	**12**	**0.89**	0.10 U	0.10 U	**1.4**	0.10 U	0.10 U	0.11 U	0.12 U
PCBs																		
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	**0.17**	**0.18**	0.10 U	0.12 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Total PCBs	N/A	12	7	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	**0.17**	**0.18**	0.10 U	0.12 U

Table 1
Summary of Analytical Results for Hydro Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		Sample ID:	H-TP-1			H-TP-2	H-TP-3			H-TP-4			
							Sample Depth (ft.):	0-1	2-3	4-5	0-1	0-1	2-4	4-5	0-1	0-1	5-6	12-14
							Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
																Field Dup		
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**												
Metals, total																		
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A		**5,400**	**17,000**	**11,000**	**20,000**	**7,100**	**4,600**	**16,000**	**6,100**	**5,400**	**4,900**	**18,000**
	Antimony	N/A	680	120	1	N/A		2.4 U	2.8 U	**5.7**	2.7 U	2.6 U	2.5 U	2.6 U	2.5 U	2.4 U	2.6 U	3.1 U
	Arsenic	N/A	4	42	15	N/A		**3.6**	**9.9**	**18**	**15**	**22**	**6.8**	**6.5**	2.5 U	2.4 U	**6.6**	**4.4**
	Barium	N/A	10,000	10,000	490	N/A		**26**	**140**	**180**	**170**	**39**	**17**	**110**	**27**	**26**	**17**	**120**
	Beryllium	N/A	3,400	620	3	N/A		0.48 U	0.56 U	0.31 U	0.55 U	0.51 U	0.25 U	0.52 U	0.25 U	0.24 U	0.26 U	0.62 U
	Cadmium	N/A	94	19	0.4	N/A		0.24 U	**0.28**	**0.70**	**0.31**	0.26 U	0.25 U	**0.31**	**0.38**	**0.38**	0.26 U	0.31 U
	Calcium	N/A	N/A	N/A	N/A	N/A		**1,400**	**2,700**	**2,100**	**2,900**	**2,300**	**1,500**	**2,200**	**1,600**	**1,200**	**910**	**2,500**
	Chromium^	N/A	5,100	2,800	N/A	N/A		**11**	**55**	**37**	**67**	**22**	**8.0**	**51**	**83**	**87**	**8.1**	**57**
	Cobalt	N/A	510	920	15	N/A		**5.1**	**13**	**11**	**16**	**6.1**	**3.1**	**11**	**7.3**	**7.6**	**3.4**	**11**
	Copper	N/A	10,000	4,300	28	N/A		**9.6**	**36**	**190**	**27**	**17**	**6.4**	**32**	**64**	**71**	**5.9**	**30**
	Iron	N/A	1,000,000	220,000	40,000	N/A		**8,900**	**20,000**	**27,000**	**25,000**	**13,000**	**6,100**	**21,000**	**59,000**	**61,000**	**6,900**	**19,000**
	Lead	N/A	1,100	950	N/A	N/A		**8.1**	**94**	**750**	**34**	**23**	**6.1**	**44**	**45**	**46**	**4.9**	**72**
	Magnesium	N/A	N/A	N/A	N/A	N/A		**2,500**	**8,200**	**4,100**	**11,000**	**3,600**	**1,600**	**7,300**	**2,000**	**2,000**	**1,700**	**7,800**
	Manganese	N/A	10,000	7,400	1,100	N/A		**170**	**390**	**590**	**440**	**190**	**89**	**310**	**580**	**590**	**110**	**270**
	Mercury	N/A	510	930	N/A	N/A		0.026 U	**0.072**	**0.20**	0.028 U	0.026 U	0.025 U	**0.064**	0.026 U	0.026 U	0.026 U	**0.13**
	Nickel	N/A	5,100	930	43	N/A		**9.9**	**38**	**32**	**49**	**18**	**7.2**	**35**	**40**	**46**	**7.0**	**31**
	Potassium	N/A	N/A	N/A	N/A	N/A		**1,400**	**6,700**	**2,300**	**10,000**	**2,100**	**950**	**5,300**	**1,100**	**1,200**	**950**	**5,400**
	Selenium	N/A	8,500	1,500	0.8	N/A		4.8 U	5.6 U	6.1 U	5.5 U	5.1 U	5.0 U	5.2 U	5.0 U	4.9 U	5.2 U	6.2 U
	Silver	N/A	8,500	1,500	N/A	N/A		0.48 U	0.56 U	0.61 U	0.55 U	0.51 U	0.50 U	0.52 U	0.50 U	0.49 U	0.52 U	0.62 U
	Sodium	N/A	N/A	N/A	N/A	N/A		97 U	**290**	**250**	**290**	**180**	**110**	**200**	**220**	**110**	**260**	**260**
	Thallium	N/A	N/A	N/A	N/A	N/A		2.4 U	2.8 U	3.1 U	2.7 U	2.6 U	2.5 U	2.6 U	2.5 U	2.4 U	2.6 U	3.1 U
	Vanadium	N/A	10,000	2,200	100	N/A		**15**	**50**	**120**	**62**	**22**	**9.2**	**42**	**24**	**27**	**11**	**44**
	Zinc	N/A	10,000	10,000	100	N/A		**30**	**73**	**270**	**62**	**29**	**15**	**59**	**27**	**27**	**18**	**75**
Cyanide (mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A		0.36 U	0.37 U	**0.94**	0.41 U	0.34 U	0.30 U	**0.48**	0.33 U	0.29 U	**0.58**	0.41 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample ID:	**T-TP-1**			**T-TP-2**		**T-TP-3**		**T-TP-4**			**T-TP-5**			
						Sample Depth (ft.):	0-1	8-10	12-13	0-1	3-4	0-1	3-5.5	0-1	1-3	4-5	0-1	0-1	2.5-3.5	8-9
						Sample Date:	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
		Scenarios and Exposure Pathways*			Maine Background													Field Dup		
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**														
EPH																				
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	11 U	68 U	11 U	13 U	12 U	69 U	11 U	12 U	12 U	11 U	13 U	**46**	12 U	11 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	11 U	**220**	11 U	13 U	12 U	**640**	**13**	12 U	**15**	11 U	**65**	**590**	12 U	11 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	11 U	**280**	11 U	**15**	12 U	**130**	11 U	**31**	**26**	11 U	**39**	**300**	12 U	11 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.11 U	**1.7**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.33**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.11 U	**5.1**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.0**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.11 U	**5.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.96**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.11 U	**6.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.3**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.11 U	**3.2**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.61**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.11 U	**2.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.46**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.11 U	**5.2**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.1**	**0.18**	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.11 U	**1.0**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.18**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	**0.14**	**11**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**2.7**	**0.20**	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.11 U	**3.8**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.75**	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	**0.14**	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.11 U	**6.7**	0.11 U	**0.13**	0.12 U	0.69 U	0.11 U	**1.6**	**0.29**	0.11 U	**0.15**	0.26 U	0.12 U	0.11 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	**0.13**	**10**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**2.4**	**0.22**	0.11 U	0.13 U	0.26 U	0.12 U	0.11 U
PCBs																				
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	**0.18**	0.14 U	**0.11**	0.13 U	0.12 U	0.14 U	0.11 U	**0.22**	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.43 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U
	Total PCBs	N/A	12	7	N/A	N/A	**0.18**	0.14 U	**0.11**	0.13 U	0.12 U	0.14 U	0.11 U	**0.22**	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-TP-1			T-TP-2		T-TP-3		T-TP-4			T-TP-5			
						Sample ID:	T-TP-1			T-TP-2		T-TP-3		T-TP-4			T-TP-5			
						Sample Depth (ft.):	0-1	8-10	12-13	0-1	3-4	0-1	3-5.5	0-1	1-3	4-5	0-1	0-1	2.5-3.5	8-9
						Sample Date:	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**												Field Dup		
Metals, total																				
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**13,000**	**9,600**	**15,000**	**16,000**	**26,000**	**3,000**	**30,000**	**28,000**	**12,000**	**29,000**	**3,000**	**4,200**	**24,000**	**15,000**
	Antimony	N/A	680	120	1	N/A	2.8 U	3.4 U	2.8 U	**25**	3.1 U	**8.4**	2.7 U	3.0 U	3.0 U	2.8 U	**4.9**	**27**	3.0 U	2.7 U
	Arsenic	N/A	4	42	15	N/A	2.8 U	**36**	**3.5**	**12**	**6.7**	**17**	**2.7**	3.0 U	**7.6**	**26**	**6.2**	**17**	**24**	**57**
	Barium	N/A	10,000	10,000	490	N/A	**110**	**170**	**120**	**130**	**160**	**320**	**210**	**300**	**300**	**190**	**290**	**410**	**170**	**100**
	Beryllium	N/A	3,400	620	3	N/A	0.55 U	0.34 U	0.55 U	0.32 U	0.61 U	0.33 U	1.4 U	1.5 U	0.30 U	0.55 U	**0.41**	**0.43**	0.60 U	0.27 U
	Cadmium	N/A	94	19	0.4	N/A	**0.45**	**3.5**	**0.40**	**0.81**	**0.98**	**2.3**	**0.64**	**0.75**	**0.94**	**0.64**	**3.9**	**3.2**	**3.3**	**0.74**
	Calcium	N/A	N/A	N/A	N/A	N/A	**1,900**	**22,000**	**4,700**	**2,400**	**1,900**	**3,300**	**1,900**	**5,300**	**3,000**	**2,300**	**2,700**	**3,200**	**1,600**	**1,200**
	Chromium^	N/A	5,100	2,800	N/A	N/A	**61**	**110**	**48**	**54**	**100**	**45**	**97**	**100**	**44**	**85**	**44**	**62**	**67**	**42**
	Cobalt	N/A	510	920	15	N/A	**11**	**11**	**11**	**13**	**15**	**5.1**	**19**	**16**	**12**	**17**	**5.5**	**5.7**	**12**	**12**
	Copper	N/A	10,000	4,300	28	N/A	**40**	**89**	**22**	**260**	**65**	**330**	**70**	**78**	**100**	**40**	**250**	**420**	**97**	**22**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**44,000**	**55,000**	**19,000**	**31,000**	**32,000**	**21,000**	**27,000**	**29,000**	**29,000**	**27,000**	**9,500**	**15,000**	**22,000**	**15,000**
	Lead	N/A	1,100	950	N/A	N/A	**22**	**200**	**23**	**1,000**	**69**	**990**	**53**	**280**	**480**	**46**	**590**	**1,300**	**25**	**5.7**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**6,600**	**3,600**	**7,400**	**6,400**	**9,200**	**530**	**14,000**	**13,000**	**4,300**	**13,000**	**540**	**660**	**6,400**	**6,100**
	Manganese	N/A	10,000	7,400	1,100	N/A	**560**	**420**	**330**	**370**	**350**	**140**	**380**	**430**	**330**	**310**	**120**	**140**	**460**	**280**
	Mercury	N/A	510	930	N/A	N/A	0.028 U	**2.6**	0.028 U	**0.41**	**0.42**	**8.7**	**0.43**	**0.40**	**0.93**	**0.12**	**0.67**	**1.5**	**0.15**	0.028 U
	Nickel	N/A	5,100	930	43	N/A	**35**	**21**	**28**	**39**	**43**	**12**	**55**	**43**	**33**	**50**	**9.8**	**13**	**51**	**41**
	Potassium	N/A	N/A	N/A	N/A	N/A	**6,200**	**2,700**	**6,400**	**3,100**	**3,600**	**350**	**11,000**	**9,300**	**2,600**	**9,100**	**190**	**250**	**1,500**	**3,800**
	Selenium	N/A	8,500	1,500	0.8	N/A	5.5 U	6.7 U	5.5 U	6.4 U	6.1 U	6.7 U	5.4 U	6.1 U	6.1 U	5.5 U	6.1 U	6.7 U	6.0 U	5.5 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.55 U	0.67 U	0.55 U	0.64 U	0.61 U	**2.0**	0.54 U	0.61 U	0.61 U	0.55 U	0.61 U	0.67 U	0.60 U	0.55 U
	Sodium	N/A	N/A	N/A	N/A	N/A	110 U	**170**	**160**	**150**	120 U	130 U	**210**	**310**	120 U	**190**	120 U	**160**	120 U	**110**
	Thallium	N/A	N/A	N/A	N/A	N/A	2.8 U	3.4 U	2.8 U	3.2 U	3.1 U	3.3 U	2.7 U	3.0 U	3.0 U	2.8 U	3.1 U	3.4 U	3.0 U	2.7 U
	Vanadium	N/A	10,000	2,200	100	N/A	**48**	**29**	**45**	**59**	**72**	**24**	**77**	**89**	**44**	**73**	**13**	**16**	**49**	**31**
	Zinc	N/A	10,000	10,000	100	N/A	**51**	**540**	**60**	**170**	**290**	**630**	**160**	**190**	**300**	**82**	**560**	**540**	**1,300**	**30**
Cyanide																				
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	0.43 U	**2.8**	0.35 U	0.58 U	**0.54**	**5.6**	**1.5**	**1.7**	**3.4**	**0.50**	**7.6**	**8.6**	**0.49**	0.35 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-TP-6			T-TP-7			T-TP-8		T-TP-9		T-TP-10		
	Sample ID:						T-TP-6			T-TP-7			T-TP-8		T-TP-9		T-TP-10		
	Sample Depth (ft.):						0-1	1-2	3.5-5	0-1	2-3	5-6	0-1	3-4	0-1	3-4	0-1	0-1	2-3
	Sample Date:						11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**												Field Dup	
EPH																			
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	12 U	12 U	11 U	16 U	19 U	12 U	12 U	11 U	12 U	11 U	15 U	30 U	13 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	12 U	12 U	11 U	**150**	**91**	**23**	12 U	11 U	12 U	11 U	**30**	**38**	13 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	12 U	**25**	11 U	**76**	**52**	**17**	12 U	11 U	**20**	11 U	**39**	**61**	13 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.12 U	0.12 U	0.11 U	**0.36**	0.19 U	**0.22**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.12 U	0.12 U	0.11 U	**0.33**	0.19 U	**0.31**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.12 U	0.12 U	0.11 U	**0.50**	0.19 U	**0.30**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.12 U	0.12 U	0.11 U	**0.25**	0.19 U	**0.16**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.12 U	0.12 U	0.11 U	**0.18**	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.12 U	0.12 U	0.11 U	**0.46**	0.19 U	**0.23**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.12 U	0.12 U	0.11 U	**0.86**	0.19 U	**0.43**	0.12 U	0.11 U	0.12 U	0.11 U	**0.23**	**0.37**	0.13 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.12 U	0.12 U	0.11 U	**0.32**	0.19 U	**0.13**	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.12 U	**0.19**	0.11 U	**0.53**	0.19 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	**0.21**	**0.36**	0.13 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.12 U	0.12 U	0.11 U	**0.89**	0.19 U	**0.50**	0.12 U	0.11 U	0.12 U	0.11 U	**0.18**	0.30 U	0.13 U
PCBs																			
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	**1.6**	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Total PCBs	N/A	12	7	N/A	N/A	0.12 U	0.12 U	0.11 U	**1.6**	0.19 U	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-TP-6			T-TP-7			T-TP-8		T-TP-9		T-TP-10		
	Sample ID:						T-TP-6			T-TP-7			T-TP-8		T-TP-9		T-TP-10		
	Sample Depth (ft.):						0-1	1-2	3.5-5	0-1	2-3	5-6	0-1	3-4	0-1	3-4	0-1	0-1	2-3
	Sample Date:						11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012 Field Dup	11/7/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**													
Metals, total																			
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**26,000**	**7,600**	**31,000**	**3,900**	**3,700**	**26,000**	**30,000**	**27,000**	**14,000**	**17,000**	**15,000**	**12,000**	**26,000**
	Antimony	N/A	680	120	1	N/A	3.0 U	3.1 U	2.8 U	**37**	4.8 U	2.9 U	3.0 U	2.6 U	3.0 U	2.5 U	3.6 U	3.5 U	3.3 U
	Arsenic	N/A	4	42	15	N/A	**6.7**	**12**	2.8 U	**7.7**	**9.8**	**26**	3.0 U	2.6 U	**24**	**42**	**14**	**16**	**4.8**
	Barium	N/A	10,000	10,000	490	N/A	**200**	**250**	**220**	**750**	**670**	**160**	**120**	**220**	**45**	**53**	**39**	**28**	**160**
	Beryllium	N/A	3,400	620	3	N/A	0.61 U	**0.57**	1.4 U	0.37 U	0.48 U	0.58 U	0.60 U	1.3 U	0.30 U	0.25 U	0.71 U	0.71 U	0.65 U
	Cadmium	N/A	94	19	0.4	N/A	**0.55**	**0.46**	**0.59**	**2.2**	**5.1**	**1.4**	**0.40**	**0.31**	**0.50**	**0.56**	**0.48**	0.35 U	**0.38**
	Calcium	N/A	N/A	N/A	N/A	N/A	**1,900**	**7,900**	**2,000**	**1,800**	**2,000**	**1,300**	**790**	**1,200**	**350**	**600**	**310**	**220**	**1,500**
	Chromium^	N/A	5,100	2,800	N/A	N/A	**88**	**20**	**130**	**88**	**77**	**86**	**100**	**180**	**31**	**42**	**100**	**98**	**240**
	Cobalt	N/A	510	920	15	N/A	**16**	**8.0**	**18**	**5.3**	**10**	**15**	**14**	**17**	**6.7**	**11**	**9.1**	**7.8**	**16**
	Copper	N/A	10,000	4,300	28	N/A	**47**	**73**	**63**	**1,700**	**1,700**	**180**	**11**	**16**	**9.9**	**25**	**10**	**9.8**	**15**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**27,000**	**8,800**	**33,000**	**31,000**	**73,000**	**56,000**	**27,000**	**28,000**	**17,000**	**15,000**	**24,000**	**23,000**	**28,000**
	Lead	N/A	1,100	950	N/A	N/A	**78**	**130**	**46**	**2,800**	**5,000**	**580**	**7.6**	**3.7**	**28**	**3.2**	**57**	**86**	**4.1**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**12,000**	**1,700**	**15,000**	**1,100**	**470**	**9,700**	**9,900**	**15,000**	**2,400**	**6,300**	**5,900**	**4,800**	**13,000**
	Manganese	N/A	10,000	7,400	1,100	N/A	**420**	**86**	**400**	**430**	**860**	**390**	**170**	**200**	**74**	**130**	**100**	**85**	**280**
	Mercury	N/A	510	930	N/A	N/A	**0.19**	**0.26**	**0.54**	**6.2**	**6.4**	**0.33**	**0.043**	0.027 U	**0.065**	0.026 U	**0.068**	**0.078**	**0.033**
	Nickel	N/A	5,100	930	43	N/A	**42**	**15**	**57**	**11**	**24**	**43**	**40**	**57**	**19**	**38**	**24**	**23**	**47**
	Potassium	N/A	N/A	N/A	N/A	N/A	**8,800**	**910**	**9,700**	**330**	**200**	**4,300**	**3,700**	**7,700**	**390**	**2,500**	**940**	**540**	**5,200**
	Selenium	N/A	8,500	1,500	0.8	N/A	6.1 U	6.1 U	5.6 U	7.5 U	9.6 U	5.8 U	6.0 U	5.3 U	6.1 U	5.0 U	7.1 U	7.1 U	6.5 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.61 U	0.61 U	0.56 U	**2.3**	**2.9**	0.58 U	0.60 U	0.53 U	0.61 U	0.50 U	0.71 U	0.71 U	0.65 U
	Sodium	N/A	N/A	N/A	N/A	N/A	**160**	**250**	110 U	150 U	190 U	120 U	120 U	110 U	120 U	100 U	140 U	140 U	130 U
	Thallium	N/A	N/A	N/A	N/A	N/A	3.0 U	3.1 U	2.8 U	3.7 U	4.8 U	2.9 U	3.0 U	2.6 U	3.0 U	2.5 U	3.6 U	3.5 U	3.3 U
	Vanadium	N/A	10,000	2,200	100	N/A	**69**	**19**	**84**	**17**	**59**	**65**	**69**	**69**	**43**	**31**	**95**	**120**	**69**
	Zinc	N/A	10,000	10,000	100	N/A	**110**	**55**	**180**	**590**	**1,500**	**460**	**64**	**52**	**39**	**24**	**41**	**31**	**46**
Cyanide (mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	0.62 U	**0.57**	0.39 U	**9.8**	**7.5**	**4.1**	**1.8**	0.45 U	0.42 U	**0.67**	0.73 U	0.66 U	0.35 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 3
Summary of Analytical Results for Hydro Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample ID:	H-GP-1			H-GP-2			H-GP-3		
						Sample Depth (ft.):	0-1	1.5-5.5	10-11	0-1	1-6	6.5-7.5	0-1	2.5-3.5	5-7
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Scenarios and Exposure Pathways*			Maine Background										
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
EPH															
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	11 U	28 U	12 U	10 U	11 U	12 U	11 U	61 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	11 U	**92**	12 U	10 U	**40**	12 U	**23**	**330**	12 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**16**	**200**	12 U	**20**	**86**	12 U	**24**	**620**	12 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.11 U	0.28 U	0.12 U	0.10 U	**0.21**	0.12 U	0.11 U	**7.4**	0.12 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.11 U	**0.80**	0.12 U	0.10 U	**0.47**	0.12 U	0.11 U	**1.3**	0.12 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.11 U	**0.74**	0.12 U	0.10 U	**0.42**	0.12 U	0.11 U	**11**	0.12 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.11 U	**2.7**	0.12 U	0.10 U	**1.3**	0.12 U	0.11 U	**13**	0.12 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.11 U	**3.8**	0.12 U	0.10 U	**1.8**	0.12 U	0.11 U	**12**	0.12 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.11 U	**5.5**	0.12 U	0.10 U	**2.9**	0.12 U	0.11 U	**18**	0.12 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.11 U	**2.8**	0.12 U	0.10 U	**1.4**	0.12 U	0.11 U	**7.0**	0.12 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.11 U	**2.1**	0.12 U	0.10 U	**0.95**	0.12 U	0.11 U	**6.5**	0.12 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.11 U	**4.3**	0.12 U	0.10 U	**2.1**	0.12 U	0.11 U	**17**	0.12 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.11 U	**0.90**	0.12 U	0.10 U	**0.48**	0.12 U	0.11 U	**2.6**	0.12 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.11 U	**7.4**	0.12 U	0.10 U	**3.5**	0.12 U	**0.16**	**41**	0.12 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.11 U	**0.43**	0.12 U	0.10 U	**0.25**	0.12 U	0.11 U	**8.7**	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.11 U	**3.2**	0.12 U	0.10 U	**1.7**	0.12 U	**0.12**	**9.0**	0.12 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.11 U	0.28 U	0.12 U	0.10 U	0.11 U	0.12 U	0.11 U	**3.6**	0.12 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.11 U	**0.34**	0.12 U	0.10 U	**0.14**	0.12 U	0.11 U	**7.0**	0.12 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.11 U	**3.7**	0.12 U	0.10 U	**1.9**	0.12 U	**0.11**	**48**	0.12 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.11 U	**7.4**	0.12 U	0.10 U	**3.5**	0.12 U	0.11 U	**37**	0.12 U
PCBs															
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Total PCBs	N/A	12	7	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U

Table 3
Summary of Analytical Results for Hydro Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		H-GP-1			H-GP-2			H-GP-3		
						Sample ID:	H-GP-1			H-GP-2			H-GP-3		
						Sample Depth (ft.):	0-1	1.5-5.5	10-11	0-1	1-6	6.5-7.5	0-1	2.5-3.5	5-7
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
Metals, total															
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**6,000**	**9,900**	**11,000**	**5,300**	**13,000**	**15,000**	**14,000**	**15,000**	**19,000**
	Antimony	N/A	680	120	1	N/A	2.8 U	3.3 U	2.9 U	2.6 U	2.7 U	3.0 U	2.7 U	3.0 U	3.0 U
	Arsenic	N/A	4	42	15	N/A	2.8 U	**5.8**	**4.7**	2.6 U	**6.4**	**4.7**	2.7 U	**5.4**	3.0 U
	Barium	N/A	10,000	10,000	490	N/A	**29**	**150**	**46**	**23**	**150**	**66**	**90**	**130**	**62**
	Beryllium	N/A	3,400	620	3	N/A	0.28 U	0.33 U	0.29 U	0.26 U	1.4 U	0.30 U	1.4 U	1.5 U	0.30 U
	Cadmium	N/A	94	19	0.4	N/A	0.28 U	**0.70**	0.29 U	0.26 U	**0.54**	0.30 U	0.27 U	**0.48**	0.30 U
	Calcium	N/A	N/A	N/A	N/A	N/A	**1,600**	**3,700**	**810**	**2,100**	**2,100**	**1,100**	**5,400**	**1,800**	**1,000**
	Chromium	N/A	5,100	2,800	N/A	N/A	**13**	**25**	**21**	**9.7**	**44**	**26**	**42**	**46**	**35**
	Cobalt	N/A	510	920	15	N/A	**5.1**	**8.3**	**6.1**	**4.3**	**11**	**7.6**	**11**	**9.8**	**10**
	Copper	N/A	10,000	4,300	28	N/A	**7.5**	**99**	**1.7**	**7.3**	**82**	**3.3**	**16**	**46**	**6.7**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**9,800**	**16,000**	**12,000**	**8,900**	**19,000**	**14,000**	**21,000**	**20,000**	**18,000**
	Lead	N/A	1,100	950	N/A	N/A	**4.6**	**300**	**4.1**	**5.9**	**210**	**7.3**	**12**	**180**	**6.5**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**3,100**	**3,300**	**2,700**	**2,500**	**7,100**	**3,400**	**8,800**	**7,000**	**5,500**
	Manganese	N/A	10,000	7,400	1,100	N/A	**150**	**280**	**280**	**140**	**300**	**230**	**250**	**290**	**260**
	Mercury	N/A	510	930	N/A	N/A	0.027 U	**0.13**	0.029 U	0.026 U	**0.094**	0.031 U	0.027 U	**0.42**	0.029 U
	Nickel	N/A	5,100	930	43	N/A	**12**	**21**	**11**	**8.0**	**29**	**12**	**31**	**26**	**17**
	Potassium	N/A	N/A	N/A	N/A	N/A	**1,700**	**2,100**	**1,300**	**1,500**	**5,600**	**1,500**	**7,900**	**4,900**	**2,600**
	Selenium	N/A	8,500	1,500	0.8	N/A	5.5 U	6.7 U	5.8 U	5.2 U	5.4 U	6.0 U	5.5 U	6.1 U	5.9 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.55 U	0.67 U	0.58 U	0.52 U	0.54 U	0.60 U	0.55 U	0.61 U	0.59 U
	Sodium	N/A	N/A	N/A	N/A	N/A	110 U	**180**	**160**	**110**	**220**	**280**	**210**	**160**	**210**
	Thallium	N/A	N/A	N/A	N/A	N/A	2.8 U	3.3 U	2.9 U	2.6 U	2.7 U	3.0 U	2.7 U	3.0 U	3.0 U
	Vanadium	N/A	10,000	2,200	100	N/A	**17**	**47**	**23**	**14**	**46**	**31**	**41**	**46**	**41**
	Zinc	N/A	10,000	10,000	100	N/A	**32**	**200**	**39**	**31**	**130**	**35**	**49**	**130**	**48**
Cyanide (mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	0.49 U	**1.1**	0.40 U	0.46 U	0.50 U	0.54 U	0.40 U	0.43 U	0.32 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample Location:	T-GP-1		T-GP-2		T-GP-3			T-GP-4	T-GP-5			T-GP-6	T-GP-7	
						Sample ID:	T-GP-1	T-GP-1	T-GP-2	T-GP-2	T-GP-3	T-GP-3	T-GP-3	T-GP-4	T-GP-5	T-GP-5R	T-GP-5	T-GP-6	T-GP-7R	T-GP-7R
						Sample Depth (ft.):	0-1	4-6.5	0-1	2-6	0-1	1-1.5	5-7	0-1	0-1	1-1.5	6-8	0-1	0-1	1-2.5
						Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/10/2012	12/4/2012	12/4/2012	12/10/2012	12/10/2012
		Scenarios and Exposure Pathways*			Maine Background															
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**														
EPH																				
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	12 U	13 U	14 U	37 U	12 U	12 U	11 U	14 U	13 U	**14**	10 U	13 U	16 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	**21**	13 U	**99**	**94**	12 U	12 U	11 U	**73**	**54**	**55**	10 U	**23**	**31**	**180**
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**26**	**21**	**97**	**72**	**17**	**17**	11 U	**48**	**33**	**51**	10 U	**20**	**29**	**92**
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.17**	0.10 U	0.13 U	0.16 U	0.12 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.12 U	0.13 U	**0.21**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	0.12 U	0.10 U	0.13 U	0.16 U	0.12 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.12 U	0.13 U	**0.31**	0.37 U	0.12 U	**0.13**	0.11 U	0.14 U	0.13 U	**0.37**	0.10 U	0.13 U	0.16 U	0.12 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.12 U	0.13 U	**1.5**	**0.93**	0.12 U	**0.20**	0.11 U	**0.19**	**0.27**	**0.86**	0.10 U	0.13 U	0.16 U	0.12 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.12 U	0.13 U	**1.9**	**1.4**	0.12 U	**0.28**	0.11 U	0.14 U	0.13 U	**1.1**	0.10 U	0.13 U	0.16 U	0.12 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.12 U	0.13 U	**2.5**	**1.5**	0.12 U	**0.28**	0.11 U	**0.29**	**0.37**	**1.2**	0.10 U	0.13 U	0.16 U	0.12 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	**0.12**	0.13 U	**1.1**	**0.89**	0.12 U	**0.12**	0.11 U	**0.15**	**0.23**	**0.51**	0.10 U	0.13 U	0.16 U	0.12 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.12 U	0.13 U	**0.94**	**0.52**	0.12 U	0.12 U	0.11 U	0.14 U	**0.14**	**0.42**	0.10 U	0.13 U	0.16 U	0.12 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	**0.14**	0.13 U	**1.8**	**1.1**	0.12 U	**0.26**	0.11 U	**0.25**	**0.31**	**0.97**	0.10 U	0.13 U	0.16 U	0.12 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.12 U	0.13 U	**0.32**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.16**	0.10 U	0.13 U	0.16 U	0.12 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	**0.17**	0.13 U	**2.3**	**1.7**	**0.14**	**0.50**	0.11 U	**0.38**	**0.57**	**1.8**	0.10 U	0.13 U	**0.20**	**0.23**
	Fluorene	120	10,000	10,000	0.426	0.708	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.23**	0.10 U	0.13 U	0.16 U	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.12 U	0.13 U	**1.3**	**0.92**	0.12 U	**0.14**	0.11 U	0.14 U	**0.20**	**0.62**	0.10 U	0.13 U	0.16 U	0.12 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.16**	0.10 U	0.13 U	0.16 U	0.12 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.12 U	0.13 U	**0.24**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.19**	0.10 U	0.13 U	0.16 U	0.12 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	**0.12**	0.13 U	**0.93**	**1.2**	0.12 U	**0.60**	0.11 U	**0.41**	**0.48**	**1.5**	0.10 U	0.13 U	**0.16**	0.12 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	**0.18**	0.13 U	**2.7**	**1.7**	0.12 U	**0.44**	0.11 U	**0.35**	**0.53**	**1.8**	0.10 U	0.13 U	**0.21**	**0.18**
PCBs																				
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	**0.14**	0.13 U	**0.36**	0.19 U	**0.17**	0.12 U	0.11 U	**0.20**	**2.7**	**0.53**	0.10 U	**4.6**	**3.5**	**8.4**
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U	0.66 U	0.61 U	1.2 U
	Total PCBs	N/A	12	7	N/A	N/A	**0.14**	0.13 U	**0.36**	0.19 U	**0.17**	0.12 U	0.11 U	**0.20**	**2.7**	**0.53**	0.10 U	**4.6**	**3.5**	**8.4**

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background															
						Sample Location:	T-GP-1		T-GP-2		T-GP-3			T-GP-4	T-GP-5			T-GP-6	T-GP-7	
						Sample ID:	T-GP-1	T-GP-1	T-GP-2	T-GP-2	T-GP-3	T-GP-3	T-GP-3	T-GP-4	T-GP-5	T-GP-5R	T-GP-5	T-GP-6	T-GP-7R	T-GP-7R
						Sample Depth (ft.):	0-1	4-6.5	0-1	2-6	0-1	1-1.5	5-7	0-1	0-1	1-1.5	6-8	0-1	0-1	1-2.5
						Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/10/2012	12/4/2012	12/4/2012	12/10/2012	12/10/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**														
Metals, total																				
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**7,700**	**15,000**	**7,900**	**8,500**	**15,000**	**11,000**	**35,000**	**15,000**	**16,000**	**16,000**	**24,000**	**20,000**	**18,000**	**16,000**
	Antimony	N/A	680	120	1	N/A	2.8 U	**5.4**	3.4 U	**14**	3.1 U	2.9 U	2.7 U	3.4 U	3.2 U	3.1 U	2.6 U	3.2 U	3.8 U	2.9 U
	Arsenic	N/A	4	42	15	N/A	2.8 U	**7.1**	3.4 U	**9.7**	**7.3**	2.9 U	2.7 U	**4.5**	3.2 U	**8.3**	2.6 U	**18**	**11**	**7.1**
	Barium	N/A	10,000	10,000	490	N/A	**84**	**160**	**130**	**280**	**150**	**150**	**300**	**740**	**230**	**150**	**320**	**120**	**150**	**160**
	Beryllium	N/A	3,400	620	3	N/A	0.28 U	0.31 U	0.34 U	0.46 U	0.31 U	0.29 U	1.3 U	0.34 U	1.6 U	0.31 U	1.3 U	0.32 U	0.38 U	0.29 U
	Cadmium	N/A	94	19	0.4	N/A	**0.43**	0.31 U	**1.1**	**1.1**	**0.39**	0.29 U	**0.36**	**1.6**	**1.1**	**1.2**	**0.32**	**0.44**	**0.85**	**1.1**
	Calcium	N/A	N/A	N/A	N/A	N/A	**1,800**	**45,000**	**5,800**	**13,000**	**2,600**	**7,100**	**4,100**	**21,000**	**3,700**	**3,800**	**2,000**	**2,400**	**2,400**	**2,300**
	Chromium	N/A	5,100	2,800	N/A	N/A	**170**	**29**	**220**	**48**	**39**	**35**	**120**	**54**	**78**	**63**	**150**	**51**	**56**	**69**
	Cobalt	N/A	510	920	15	N/A	**12**	**9.0**	**12**	**8.9**	**9.7**	**9.1**	**22**	**9.4**	**13**	**14**	**18**	**11**	**21**	**13**
	Copper	N/A	10,000	4,300	28	N/A	**72**	**15**	**200**	**510**	**37**	**21**	**17**	**120**	**140**	**320**	**9.5**	**42**	**66**	**94**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**66,000**	**16,000**	**110,000**	**43,000**	**18,000**	**14,000**	**41,000**	**21,000**	**33,000**	**36,000**	**29,000**	**20,000**	**41,000**	**67,000**
	Lead	N/A	1,100	950	N/A	N/A	**50**	**48**	**330**	**1,500**	**160**	**32**	**3.2**	**770**	**190**	**160**	**2.0**	**99**	**89**	**130**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**4,000**	**5,200**	**3,500**	**3,600**	**4,800**	**5,500**	**22,000**	**11,000**	**7,800**	**6,900**	**17,000**	**5,900**	**5,900**	**6,100**
	Manganese	N/A	10,000	7,400	1,100	N/A	**710**	**280**	**820**	**480**	**490**	**240**	**630**	**680**	**580**	**430**	**530**	**300**	**640**	**510**
	Mercury	N/A	510	930	N/A	N/A	**0.13**	**0.074**	**0.75**	**2.9**	**0.85**	**0.61**	0.027 U	**30**	**0.34**	**0.23**	0.026 U	**0.20**	**0.24**	**0.27**
	Nickel	N/A	5,100	930	43	N/A	**84**	**18**	**75**	**23**	**27**	**31**	**66**	**24**	**54**	**42**	**61**	**39**	**47**	**45**
	Potassium	N/A	N/A	N/A	N/A	N/A	**2,500**	**3,300**	**1,700**	**2,000**	**2,200**	**3,900**	**16,000**	**2,100**	**5,100**	**4,600**	**16,000**	**2,300**	**2,400**	**3,500**
	Selenium	N/A	8,500	1,500	0.8	N/A	11 U	6.3 U	14 U	9.3 U	6.2 U	5.8 U	5.4 U	6.8 U	6.3 U	6.2 U	5.2 U	6.4 U	7.7 U	5.7 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.57 U	0.63 U	0.68 U	0.93 U	0.62 U	0.58 U	0.54 U	0.68 U	0.63 U	0.62 U	0.52 U	0.64 U	0.77 U	**0.72**
	Sodium	N/A	N/A	N/A	N/A	N/A	**150**	**150**	140 U	190 U	120 U	**130**	**600**	140 U	**180**	**150**	**170**	**130**	150 U	110 U
	Thallium	N/A	N/A	N/A	N/A	N/A	5.7 U	3.1 U	6.8 U	4.6 U	3.1 U	2.9 U	2.7 U	3.4 U	3.2 U	3.1 U	2.6 U	3.2 U	3.8 U	2.9 U
	Vanadium	N/A	10,000	2,200	100	N/A	**56**	**33**	**47**	**27**	**38**	**34**	**100**	**48**	**52**	**49**	**82**	**40**	**47**	**51**
	Zinc	N/A	10,000	10,000	100	N/A	**66**	**33**	**270**	**480**	**98**	**45**	**76**	**540**	**220**	**160**	**56**	**88**	**130**	**210**
Metals, SPLP																				
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	**0.11**	NA	NA	NA	**0.60**	NA	NA	NA	NA	NA	NA
Cyanide																				
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	0.33 U	0.43 U	0.62 U	**2.1**	0.62 U	0.59 U	0.54 U	**1.6**	0.55 U	**0.99**	0.43 U	0.67 U	**0.93**	**1.4**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed Maine RAGs or TCLP criteria, as ap

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

SPLP - Synthetic Precipitation Leaching Procedure.

TCLP - Toxicity Characteristic Leaching Procedure.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

^^ - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample Location:	T-GP-8	T-GP-9	T-GP-10	T-GP-11	T-GP-12	T-GP-13		
						Sample ID:	T-GP-8R	T-GP-9	T-GP-10R	T-GP-11	T-GP-12	T-GP-13	Dup-1	T-GP-13
						Sample Depth (ft.):	0-1	0-1	0-1	0-1	0-1	0-1	0-1	1-3
						Sample Date:	12/10/2012	12/4/2012	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Scenarios and Exposure Pathways*			Maine Background								Field Dup	
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**								
EPH														
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	12 U	30 U	13 U	14 U	11 U	14 U	15 U	10 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	12 U	30 U	13 U	14 U	11 U	**1,400**	**100**	10 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	12 U	**36**	**22**	**44**	**20**	**520**	**84**	10 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.12 U	0.30 U	0.13 U	0.14 U	**0.13**	0.14 U	**0.15**	0.10 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.12 U	0.30 U	0.13 U	0.14 U	**0.17**	0.14 U	**0.26**	0.10 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.12 U	0.30 U	0.13 U	0.14 U	**0.18**	0.14 U	**0.59**	0.10 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.12 U	0.30 U	0.13 U	0.14 U	**0.22**	0.14 U	**0.72**	0.10 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.12 U	0.30 U	0.13 U	0.14 U	**0.19**	0.14 U	**0.59**	0.10 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	**0.24**	0.10 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.12 U	0.30 U	0.13 U	0.14 U	**0.19**	0.14 U	**0.83**	0.10 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.12 U	0.30 U	0.13 U	0.14 U	**0.54**	**0.47**	**1.2**	0.10 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.12 U	0.30 U	0.13 U	0.14 U	**0.15**	0.14 U	**0.24**	0.10 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	**0.32**	0.10 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.12 U	0.30 U	0.13 U	0.14 U	**0.17**	0.14 U	0.15 U	0.10 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.12 U	0.30 U	0.13 U	0.14 U	**0.74**	**0.19**	**1.3**	0.10 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.12 U	0.30 U	0.13 U	0.14 U	**0.55**	**0.41**	**1.6**	0.10 U
PCBs														
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Total PCBs	N/A	12	7	N/A	N/A	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-GP-8	T-GP-9	T-GP-10	T-GP-11	T-GP-12	T-GP-13		
						Sample Location:	T-GP-8	T-GP-9	T-GP-10	T-GP-11	T-GP-12	T-GP-13		
						Sample ID:	T-GP-8R	T-GP-9	T-GP-10R	T-GP-11	T-GP-12	T-GP-13	Dup-1	T-GP-13
						Sample Depth (ft.):	0-1	0-1	0-1	0-1	0-1	0-1	0-1	1-3
						Sample Date:	12/10/2012	12/4/2012	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**							Field Dup	
Metals, total														
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**27,000**	**22,000**	**20,000**	**18,000**	**25,000**	**9,600**	**11,000**	**22,000**
	Antimony	N/A	680	120	1	N/A	2.9 U	3.5 U	3.3 U	3.6 U	2.9 U	**4.8**	3.5 U	2.6 U
	Arsenic	N/A	4	42	15	N/A	2.9 U	**21**	**7.8**	3.6 U	**24**	3.3 U	**4.0**	**9.6**
	Barium	N/A	10,000	10,000	490	N/A	**250**	**95**	**67**	**64**	**210**	**310**	**360**	**260**
	Beryllium	N/A	3,400	620	3	N/A	1.4 U	1.7 U	0.33 U	1.8 U	2.9 U	0.33 U	0.35 U	1.3 U
	Cadmium	N/A	94	19	0.4	N/A	**0.40**	0.35 U	**0.39**	**0.36**	**1.2**	**1.3**	**1.4**	**0.34**
	Calcium	N/A	N/A	N/A	N/A	N/A	**2,000**	**1,500**	**430**	**870**	**2,200**	**2,500**	**2,600**	**1,600**
	Chromium	N/A	5,100	2,800	N/A	N/A	**100**	**78**	**43**	**42**	**98**	**50**	**62**	**120**
	Cobalt	N/A	510	920	15	N/A	**20**	**11**	**9.1**	**6.8**	**15**	**7.5**	**9.1**	**18**
	Copper	N/A	10,000	4,300	28	N/A	**14**	**18**	**9.5**	**7.8**	**56**	**260**	**360**	**12**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**30,000**	**21,000**	**18,000**	**21,000**	**55,000**	**31,000**	**24,000**	**25,000**
	Lead	N/A	1,100	950	N/A	N/A	**9.5**	**30**	**17**	**51**	**140**	**560**	**710**	**2.6**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**15,000**	**7,900**	**4,500**	**3,600**	**11,000**	**3,400**	**3,700**	**14,000**
	Manganese	N/A	10,000	7,400	1,100	N/A	**470**	**190**	**130**	**110**	**370**	**300**	**360**	**680**
	Mercury	N/A	510	930	N/A	N/A	0.029 U	**0.12**	**0.10**	**0.087**	**0.056**	**2.8**	**2.1**	0.026 U
	Nickel	N/A	5,100	930	43	N/A	**55**	**42**	**24**	**21**	**46**	**19**	**22**	**58**
	Potassium	N/A	N/A	N/A	N/A	N/A	**14,000**	**2,800**	**1,700**	**1,000**	**7,500**	**1,500**	**1,700**	**13,000**
	Selenium	N/A	8,500	1,500	0.8	N/A	5.7 U	7.0 U	6.6 U	7.1 U	5.7 U	6.7 U	7.0 U	5.2 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.57 U	0.70 U	0.66 U	0.71 U	0.57 U	0.67 U	0.70 U	0.52 U
	Sodium	N/A	N/A	N/A	N/A	N/A	**180**	140 U	130 U	140 U	**220**	130 U	140 U	**130**
	Thallium	N/A	N/A	N/A	N/A	N/A	2.9 U	3.5 U	3.3 U	3.6 U	2.9 U	3.3 U	3.5 U	2.6 U
	Vanadium	N/A	10,000	2,200	100	N/A	**83**	**52**	**45**	**70**	**71**	**30**	**35**	**71**
	Zinc	N/A	10,000	10,000	100	N/A	**62**	**72**	**44**	**81**	**320**	**500**	**600**	**52**
Metals, SPLP														
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP														
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide														
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	0.53 U	0.68 U	0.65 U	0.51 U	0.47 U	**9.2**	**7.9**	0.43 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed Maine RAGs or TCLP criteria, as ap

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

SPLP - Synthetic Precipitation Leaching Procedure.

TCLP - Toxicity Characteristic Leaching Procedure.

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** - For reference purposes only.

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^^ - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample Location:	T-GP-14			T-GP-15			T-GP-16		
						Sample ID:	T-GP-14	T-GP-14	T-GP-14	T-GP-15	T-GP-15	T-GP-15	T-GP-16	Dup-2	T-GP-16
						Sample Depth (ft.):	0-1	1.5-5.5	6-7	0-1	1-1.5	2-6	0-1	0-1	1-2.5
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Scenarios and Exposure Pathways*			Maine Background									Field Dup	
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
EPH															
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	13 U	14 U	11 U	13 U	11 U	10 U	12 U	12 U	10 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	**57**	**160**	11 U	**52**	11 U	10 U	**18**	**30**	10 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**52**	**92**	11 U	**56**	**22**	10 U	**35**	**35**	10 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	**0.27**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	**0.50**	**0.22**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.13 U	**0.49**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	**0.66**	**0.57**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.13 U	**0.43**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	**0.22**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	**0.63**	**0.40**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	**1.2**	**0.34**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Fluorene	120	10,000	10,000	0.426	0.708	**0.17**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	**0.31**	**0.16**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	**0.22**	0.12 U	0.10 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	**1.2**	**0.44**	0.11 U	**0.14**	0.11 U	0.10 U	**0.21**	0.12 U	0.10 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	**1.1**	**0.32**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
PCBs															
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Total PCBs	N/A	12	7	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-GP-14			T-GP-15			T-GP-16		
						Sample Location:	T-GP-14			T-GP-15			T-GP-16		
						Sample ID:	T-GP-14	T-GP-14	T-GP-14	T-GP-15	T-GP-15	T-GP-15	T-GP-16	Dup-2	T-GP-16
						Sample Depth (ft.):	0-1	1.5-5.5	6-7	0-1	1-1.5	2-6	0-1	0-1	1-2.5
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**								Field Dup	
Metals, total															
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**2,300**	**2,400**	**26,000**	**6,200**	**2,800**	**21,000**	**4,900**	**4,100**	**24,000**
	Antimony	N/A	680	120	1	N/A	**65**	**17**	2.7 U	**4.8**	2.8 U	2.6 U	**5.3**	**4.1**	2.5 U
	Arsenic	N/A	4	42	15	N/A	**9.2**	**4.2**	**4.9**	**20**	**4.6**	2.6 U	**3.8**	3.0 U	2.5 U
	Barium	N/A	10,000	10,000	490	N/A	**570**	**390**	**240**	**610**	**160**	**190**	**73**	**78**	**230**
	Beryllium	N/A	3,400	620	3	N/A	0.32 U	0.34 U	1.4 U	**1.0**	0.28 U	1.3 U	0.30 U	0.30 U	1.2 U
	Cadmium	N/A	94	19	0.4	N/A	**1.8**	**0.98**	**0.34**	**0.76**	0.28 U	**0.28**	**0.31**	0.30 U	**0.28**
	Calcium	N/A	N/A	N/A	N/A	N/A	**2,600**	**3,100**	**1,700**	**4,300**	**2,200**	**1,800**	**2,500**	**2,300**	**1,600**
	Chromium	N/A	5,100	2,800	N/A	N/A	**21**	**120**	**94**	**67**	**5.8**	**120**	**19**	**15**	**140**
	Cobalt	N/A	510	920	15	N/A	**5.1**	**5.8**	**19**	**9.3**	**5.6**	**16**	**5.6**	**4.8**	**17**
	Copper	N/A	10,000	4,300	28	N/A	**900**	**3,200**	**12**	**170**	**23**	**9.5**	**97**	**91**	**8.5**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**12,000**	**14,000**	**27,000**	**17,000**	**6,900**	**24,000**	**17,000**	**14,000**	**25,000**
	Lead	N/A	1,100	950	N/A	N/A	**4,300**	**3,400**	**2.8**	**350**	**32**	**4.3**	**170**	**160**	**3.0**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**760**	**510**	**14,000**	**1,200**	**330**	**12,000**	**840**	**750**	**14,000**
	Manganese	N/A	10,000	7,400	1,100	N/A	**460**	**140**	**410**	**170**	**35**	**390**	**93**	**65**	**460**
	Mercury	N/A	510	930	N/A	N/A	**4.8**	**3.2**	**0.035**	**1.1**	**0.070**	0.026 U	**0.42**	**0.35**	0.025 U
	Nickel	N/A	5,100	930	43	N/A	**15**	**12**	**56**	**19**	**11**	**51**	**15**	**14**	**54**
	Potassium	N/A	N/A	N/A	N/A	N/A	**200**	**190**	**11,000**	**350**	**230**	**7,900**	**370**	**420**	**13,000**
	Selenium	N/A	8,500	1,500	0.8	N/A	6.4 U	6.8 U	5.4 U	6.6 U	5.7 U	5.1 U	6.0 U	5.9 U	4.9 U
	Silver	N/A	8,500	1,500	N/A	N/A	**2.6**	**2.8**	0.54 U	0.66 U	0.57 U	0.51 U	0.60 U	0.59 U	0.49 U
	Sodium	N/A	N/A	N/A	N/A	N/A	130 U	140 U	**190**	**320**	110 U	**130**	120 U	120 U	**190**
	Thallium	N/A	N/A	N/A	N/A	N/A	3.2 U	3.4 U	2.7 U	3.3 U	2.8 U	2.6 U	3.0 U	3.0 U	2.5 U
	Vanadium	N/A	10,000	2,200	100	N/A	**15**	**10**	**73**	**37**	**14**	**65**	**38**	**32**	**69**
	Zinc	N/A	10,000	10,000	100	N/A	**610**	**450**	**67**	**300**	**32**	**45**	**130**	**98**	**68**
Metals, SPLP															
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP															
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	**17**	NA	NA	NA	NA	NA	NA	NA
Cyanide															
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	**7.0**	**6.4**	0.44 U	**6.4**	0.42 U	0.51 U	**1.7**	**1.1**	0.39 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed Maine RAGs or TCLP criteria, as ap

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

SPLP - Synthetic Precipitation Leaching Procedure.

TCLP - Toxicity Characteristic Leaching Procedure.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

^^ - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-GP-17			T-GP-18	T-GP-19
						Sample Location:	T-GP-17			T-GP-18	T-GP-19
						Sample ID:	T-GP-17	T-GP-17	T-GP-17	T-GP-18R	T-GP-19R
						Sample Depth (ft.):	0-1	1-5.5	10-12	0-1	0-1
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/10/2012	12/10/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**					
EPH											
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	25 U	13 U	10 U	15 U	25 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	**81**	**76**	10 U	**74**	25 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**100**	**75**	10 U	**50**	25 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.25 U	0.13 U	0.10 U	0.15 U	0.25 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.25 U	0.13 U	0.10 U	0.15 U	0.25 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.25 U	**0.26**	0.10 U	0.15 U	0.25 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	**0.52**	**0.74**	0.10 U	**0.21**	0.25 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	**0.51**	**0.74**	0.10 U	0.15 U	0.25 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	**0.80**	**1.1**	0.10 U	**0.38**	0.25 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	**0.45**	**0.46**	0.10 U	0.15 U	0.25 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	**0.30**	**0.37**	0.10 U	0.15 U	0.25 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	**0.66**	**0.86**	0.10 U	**0.29**	0.25 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.25 U	**0.22**	0.10 U	0.15 U	0.25 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	**0.89**	**1.5**	0.10 U	**0.46**	0.25 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.25 U	**0.13**	0.10 U	0.15 U	0.25 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	**0.40**	**0.67**	0.10 U	**0.23**	0.25 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.25 U	**0.13**	0.10 U	0.15 U	0.25 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.25 U	**0.18**	0.10 U	0.15 U	0.25 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	**0.38**	**0.90**	0.10 U	**0.31**	0.25 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	**0.94**	**1.4**	0.10 U	**0.39**	0.25 U
PCBs											
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	**0.19**	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	**0.31**	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Total PCBs	N/A	12	7	N/A	N/A	**0.50**	0.13 U	0.10 U	0.15 U	0.13 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		T-GP-17			T-GP-18	T-GP-19
						Sample Location:	T-GP-17			T-GP-18	T-GP-19
						Sample ID:	T-GP-17	T-GP-17	T-GP-17	T-GP-18R	T-GP-19R
						Sample Depth (ft.):	0-1	1-5.5	10-12	0-1	0-1
						Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/10/2012	12/10/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**					
Metals, total											
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**11,000**	**3,500**	**20,000**	**16,000**	**27,000**
	Antimony	N/A	680	120	1	N/A	3.0 U	**5.8**	2.5 U	3.7 U	3.1 U
	Arsenic	N/A	4	42	15	N/A	3.0 U	**6.4**	**13**	**21**	**14**
	Barium	N/A	10,000	10,000	490	N/A	**160**	**120**	**260**	**1,300**	**230**
	Beryllium	N/A	3,400	620	3	N/A	0.30 U	0.30 U	1.3 U	0.37 U	0.63 U
	Cadmium	N/A	94	19	0.4	N/A	**0.52**	**0.62**	**0.36**	**4.3**	**0.67**
	Calcium	N/A	N/A	N/A	N/A	N/A	**3,200**	**7,500**	**6,900**	**2,800**	**600**
	Chromium	N/A	5,100	2,800	N/A	N/A	**71**	**17**	**100**	**120**	**86**
	Cobalt	N/A	510	920	15	N/A	**9.1**	**5.4**	**16**	**12**	**12**
	Copper	N/A	10,000	4,300	28	N/A	**120**	**110**	**7.1**	**470**	**16**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**37,000**	**21,000**	**24,000**	**38,000**	**28,000**
	Lead	N/A	1,100	950	N/A	N/A	**210**	**750**	**3.2**	**2,100**	**120**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**4,200**	**2,000**	**13,000**	**5,900**	**6,300**
	Manganese	N/A	10,000	7,400	1,100	N/A	**1,100**	**170**	**720**	**490**	**140**
	Mercury	N/A	510	930	N/A	N/A	**0.33**	**0.46**	**0.036**	**6.3**	**0.17**
	Nickel	N/A	5,100	930	43	N/A	**37**	**24**	**45**	**32**	**30**
	Potassium	N/A	N/A	N/A	N/A	N/A	**2,700**	**780**	**13,000**	**2,700**	**1,400**
	Selenium	N/A	8,500	1,500	0.8	N/A	5.9 U	6.1 U	5.1 U	7.5 U	6.3 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.59 U	0.61 U	0.51 U	**2.3**	0.63 U
	Sodium	N/A	N/A	N/A	N/A	N/A	120 U	120 U	**200**	150 U	130 U
	Thallium	N/A	N/A	N/A	N/A	N/A	3.0 U	3.0 U	2.5 U	3.7 U	3.1 U
	Vanadium	N/A	10,000	2,200	100	N/A	**40**	**21**	**67**	**58**	**77**
	Zinc	N/A	10,000	10,000	100	N/A	**140**	**150**	**51**	**1,100**	**140**
Metals, SPLP											
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	**44**	NA	NA	NA
Metals, TCLP											
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA
Cyanide											
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	**2.5**	**1.9**	**1.6**	**17**	**9.0**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed Maine RAGs or TCLP criteria, as ap

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

SPLP - Synthetic Precipitation Leaching Procedure.

TCLP - Toxicity Characteristic Leaching Procedure.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

^^ - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 5
Summary of Analytical Results for Transmission Line Parcel Hand Auger Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample ID:	**T-HA-5**	**T-HA-9**
						Sample Depth (ft.):	0-1	0-1
						Sample Date:	11/8/2012	11/8/2012
		Scenarios and Exposure Pathways*			Maine Background			
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**		
EPH								
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	15 U	16 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	15 U	**27**
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**33**	**47**
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.15 U	0.16 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.15 U	0.16 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.15 U	0.16 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.15 U	0.16 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.15 U	0.16 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.15 U	0.16 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.15 U	0.16 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.15 U	0.16 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.15 U	0.16 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.15 U	0.16 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.15 U	0.16 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.15 U	0.16 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.15 U	0.16 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.15 U	0.16 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.15 U	0.16 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.15 U	0.16 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.15 U	0.16 U
PCBs								
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.14 U	0.15 U
	Total PCBs	N/A	12	7	N/A	N/A	0.14 U	0.15 U

Table 5
Summary of Analytical Results for Transmission Line Parcel Hand Auger Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		Sample ID:	T-HA-5	T-HA-9
							Sample Depth (ft.):	0-1	0-1
							Sample Date:	11/8/2012	11/8/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**			
Metals, total									
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A		**23,000**	**7,900**
	Antimony	N/A	680	120	1	N/A		3.5 U	3.7 U
	Arsenic	N/A	4	42	15	N/A		**34**	**4.1**
	Barium	N/A	10,000	10,000	490	N/A		**57**	**17**
	Beryllium	N/A	3,400	620	3	N/A		0.69 U	0.37 U
	Cadmium	N/A	94	19	0.4	N/A		0.35 U	0.37 U
	Calcium	N/A	N/A	N/A	N/A	N/A		**1,500**	**640**
	Chromium^	N/A	5,100	2,800	N/A	N/A		**46**	**7.5**
	Cobalt	N/A	510	920	15	N/A		**9.9**	3.7 U
	Copper	N/A	10,000	4,300	28	N/A		**8.9**	**5.0**
	Iron	N/A	1,000,000	220,000	40,000	N/A		**22,000**	**7,700**
	Lead	N/A	1,100	950	N/A	N/A		**25**	**18**
	Magnesium	N/A	N/A	N/A	N/A	N/A		**3,800**	**550**
	Manganese	N/A	10,000	7,400	1,100	N/A		**130**	**38**
	Mercury	N/A	510	930	N/A	N/A		**0.071**	**0.065**
	Nickel	N/A	5,100	930	43	N/A		**38**	**4.2**
	Potassium	N/A	N/A	N/A	N/A	N/A		**1,000**	**310**
	Selenium	N/A	8,500	1,500	0.8	N/A		6.9 U	7.4 U
	Silver	N/A	8,500	1,500	N/A	N/A		0.69 U	0.74 U
	Sodium	N/A	N/A	N/A	N/A	N/A		140 U	150 U
	Thallium	N/A	N/A	N/A	N/A	N/A		3.5 U	3.7 U
	Vanadium	N/A	10,000	2,200	100	N/A		**48**	**18**
	Zinc	N/A	10,000	10,000	100	N/A		**51**	**19**
Cyanide (mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A		0.50 U	0.57 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 6
Summary of Analytical Results for Transmission Line Parcel Surface Water Drainage Sediment Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background			
						Sample ID:	**T-SWD-1**	**T-SWD-2**
						Sample Depth (ft.):	0-0.5	0-0.5
						Sample Date:	11/7/2012	11/7/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**		
EPH								
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	17 U	14 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	17 U	14 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**23**	14 U
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.17 U	0.14 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.17 U	0.14 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.17 U	0.14 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	0.17 U	0.14 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	0.17 U	0.14 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	0.17 U	0.14 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	0.17 U	0.14 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.17 U	0.14 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	0.17 U	0.14 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.17 U	0.14 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	0.17 U	0.14 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.17 U	0.14 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	0.17 U	0.14 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.17 U	0.14 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.17 U	0.14 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	0.17 U	0.14 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	0.17 U	0.14 U
PCBs								
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Total PCBs	N/A	12	7	N/A	N/A	0.17 U	0.14 U

Table 6
Summary of Analytical Results for Transmission Line Parcel Surface Water Drainage Sediment Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		Sample ID:	**T-SWD-1**	**T-SWD-2**
							Sample Depth (ft.):	0-0.5	0-0.5
							Sample Date:	11/7/2012	11/7/2012
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**			
Metals, total									
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A		**9,400**	**19,000**
	Antimony	N/A	680	120	1	N/A		4.1 U	3.4 U
	Arsenic	N/A	4	42	15	N/A		**7.2**	**6.9**
	Barium	N/A	10,000	10,000	490	N/A		**75**	**91**
	Beryllium	N/A	3,400	620	3	N/A		0.41 U	0.34 U
	Cadmium	N/A	94	19	0.4	N/A		**0.52**	**0.58**
	Calcium	N/A	N/A	N/A	N/A	N/A		**2,200**	**3,200**
	Chromium^	N/A	5,100	2,800	N/A	N/A		**16**	**59**
	Cobalt	N/A	510	920	15	N/A		**13**	**14**
	Copper	N/A	10,000	4,300	28	N/A		**14**	**14**
	Iron	N/A	1,000,000	220,000	40,000	N/A		**21,000**	**29,000**
	Lead	N/A	1,100	950	N/A	N/A		**29**	**22**
	Magnesium	N/A	N/A	N/A	N/A	N/A		**2,000**	**8,900**
	Manganese	N/A	10,000	7,400	1,100	N/A		**1,800**	**1,000**
	Mercury	N/A	510	930	N/A	N/A		0.044 U	0.036 U
	Nickel	N/A	5,100	930	43	N/A		**11**	**23**
	Potassium	N/A	N/A	N/A	N/A	N/A		**1,400**	**4,400**
	Selenium	N/A	8,500	1,500	0.8	N/A		8.3 U	6.9 U
	Silver	N/A	8,500	1,500	N/A	N/A		0.83 U	0.69 U
	Sodium	N/A	N/A	N/A	N/A	N/A		170 U	**150**
	Thallium	N/A	N/A	N/A	N/A	N/A		4.1 U	3.4 U
	Vanadium	N/A	10,000	2,200	100	N/A		**31**	**70**
	Zinc	N/A	10,000	10,000	100	N/A		**87**	**120**
Cyanide									
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A		0.70 U	0.42 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 7
Summary of Analytical Results for Transmission Line Parcel Near-Bank Soil Samples -- November and December 2012
Little Falls
Windham, Maine

Analysis	Analyte					Sample ID:	**T-Bank-1**	**T-Bank-2**	**T-Bank-3**	**T-Bank-4**		**T-Bank-4-1**	**T-Bank-4-2**	**T-Bank-4-3**	**T-Bank-4-4**
						Sample Depth (ft.):	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
						Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/8/2012	11/8/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
		Scenarios and Exposure Pathways*			Maine Background						Field Dup				
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
EPH															
(mg/kg)	C9-C18 Aliphatics	N/A	10,000	7,300	N/A	N/A	14 U	12 U	13 U	17 U	18 U	25 U	19 U	50 U	22 U
	C19-C36 Aliphatics	N/A	10,000	10,000	N/A	N/A	**34**	**41**	13 U	17 U	**130**	25 U	19 U	**98**	22 U
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	**41**	**53**	**16**	**43**	**120**	**42**	**39**	**220**	**46**
	Acenaphthene	170	10,000	9,800	0.479	0.6072	0.14 U	0.12 U	0.13 U	0.17 U	**0.78**	0.25 U	0.19 U	0.50 U	0.22 U
	Acenaphthylene	68	10,000	10,000	0.4937	0.6606	0.14 U	0.12 U	0.13 U	0.17 U	0.18 U	0.25 U	0.19 U	0.50 U	0.22 U
	Anthracene	2,400	10,000	3,800	0.49	1.63	0.14 U	0.12 U	0.13 U	0.17 U	**1.7**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	**0.36**	0.12 U	0.13 U	0.17 U	**2.9**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	**0.41**	0.12 U	0.13 U	0.17 U	**2.8**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	**0.46**	0.12 U	0.13 U	0.17 U	**3.6**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(g,h,i)perylene	N/A	10,000	10,000	1.487	2.035	**0.18**	0.12 U	0.13 U	0.17 U	**2.0**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	0.14 U	0.12 U	0.13 U	0.17 U	**1.3**	0.25 U	0.19 U	0.50 U	0.22 U
	Chrysene	N/A	3,500	10,000	3.76	4.1	**0.43**	0.12 U	0.13 U	0.17 U	**3.0**	0.25 U	0.19 U	0.50 U	0.22 U
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	0.14 U	0.12 U	0.13 U	0.17 U	**0.52**	0.25 U	0.19 U	0.50 U	0.22 U
	Fluoranthene	N/A	10,000	10,000	4.37	7.635	**0.78**	**0.19**	**0.14**	0.17 U	**7.9**	0.25 U	0.19 U	0.50 U	0.22 U
	Fluorene	120	10,000	10,000	0.426	0.708	0.14 U	0.12 U	0.13 U	0.17 U	**0.91**	0.25 U	0.19 U	0.50 U	0.22 U
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	**0.34**	0.12 U	0.13 U	0.17 U	**2.3**	0.25 U	0.19 U	0.50 U	0.22 U
	2-Methylnaphthalene	3.6	3,600	600	0.414	0.804	0.14 U	0.12 U	0.13 U	0.17 U	**0.19**	0.25 U	0.19 U	0.50 U	0.22 U
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	0.14 U	0.12 U	0.13 U	0.17 U	**0.30**	0.25 U	0.19 U	0.50 U	0.22 U
	Phenanthrene	97	10,000	8,900	1.608	4.064	**0.45**	0.12 U	0.13 U	0.17 U	**7.2**	0.25 U	0.19 U	0.50 U	0.22 U
	Pyrene	N/A	10,000	10,000	4.016	6.71	**1.0**	**0.23**	0.13 U	0.17 U	**7.3**	0.25 U	0.19 U	0.50 U	0.22 U
PCBs															
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	**1.6**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	**0.37**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	**0.28**
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Total PCBs	N/A	12	7	N/A	N/A	**1.97**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	**0.28**

Table 7
Summary of Analytical Results for Transmission Line Parcel Near-Bank Soil Samples -- November and December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background										
						Sample ID:	**T-Bank-1**	**T-Bank-2**	**T-Bank-3**	**T-Bank-4**		**T-Bank-4-1**	**T-Bank-4-2**	**T-Bank-4-3**	**T-Bank-4-4**
						Sample Depth (ft.):	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
						Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/8/2012	11/8/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
											Field Dup				
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
Metals, total															
(mg/kg)	Aluminum	N/A	1,000,000	310,000	63,000	N/A	**14,000**	**20,000**	**12,000**	**8,400**	**9,200**	**11,000**	**13,000**	**2,600**	**8,900**
	Antimony	N/A	680	120	1	N/A	3.3 U	3.1 U	3.3 U	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Arsenic	N/A	4	42	15	N/A	**5.3**	**18**	**11**	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Barium	N/A	10,000	10,000	490	N/A	**130**	**97**	**38**	**31**	**30**	**34**	**58**	**31**	**41**
	Beryllium	N/A	3,400	620	3	N/A	0.66 U	0.62 U	0.33 U	0.40 U	0.84 U	0.30 U	0.47 U	0.63 U	0.51 U
	Cadmium	N/A	94	19	0.4	N/A	**0.80**	**0.60**	0.33 U	0.40 U	0.42 U	0.30 U	0.47 U	0.63 U	0.51 U
	Calcium	N/A	N/A	N/A	N/A	N/A	**3,700**	**770**	**690**	**940**	**1,000**	**750**	**2,400**	**4,200**	**1,900**
	Chromium^	N/A	5,100	2,800	N/A	N/A	**67**	**65**	**34**	**22**	**25**	**22**	**32**	**6.0**	**20**
	Cobalt	N/A	510	920	15	N/A	**13**	**9.2**	**6.1**	**5.9**	**5.2**	**4.9**	**8.4**	6.3 U	5.1 U
	Copper	N/A	10,000	4,300	28	N/A	**100**	**67**	**7.2**	**11**	**11**	**1.3**	**11**	**11**	**10**
	Iron	N/A	1,000,000	220,000	40,000	N/A	**61,000**	**25,000**	**14,000**	**10,000**	**11,000**	**11,000**	**16,000**	**3,200**	**11,000**
	Lead	N/A	1,100	950	N/A	N/A	**100**	**190**	**20**	**24**	**26**	**6.4**	**18**	**11**	**17**
	Magnesium	N/A	N/A	N/A	N/A	N/A	**6,500**	**5,500**	**4,300**	**3,300**	**3,600**	**2,800**	**5,500**	**1,200**	**3,300**
	Manganese	N/A	10,000	7,400	1,100	N/A	**700**	**150**	**100**	**93**	**100**	**85**	**340**	**130**	**130**
	Mercury	N/A	510	930	N/A	N/A	**0.32**	**0.39**	**0.046**	**0.059**	**0.10**	0.031 U	0.048 U	**0.088**	0.054 U
	Nickel	N/A	5,100	930	43	N/A	**45**	**26**	**15**	**11**	**12**	**8.4**	**16**	**4.4**	**10**
	Potassium	N/A	N/A	N/A	N/A	N/A	**6,100**	**1,500**	**1,500**	**1,200**	**1,300**	**830**	**2,200**	**910**	**1,400**
	Selenium	N/A	8,500	1,500	0.8	N/A	6.6 U	6.2 U	6.6 U	8.0 U	8.4 U	6.0 U	9.4 U	13 U	10 U
	Silver	N/A	8,500	1,500	N/A	N/A	0.66 U	0.62 U	0.66 U	0.80 U	0.84 U	0.60 U	0.94 U	1.3 U	1.0 U
	Sodium	N/A	N/A	N/A	N/A	N/A	130 U	120 U	130 U	160 U	170 U	120 U	190 U	250 U	210 U
	Thallium	N/A	N/A	N/A	N/A	N/A	3.3 U	3.1 U	3.3 U	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Vanadium	N/A	10,000	2,200	100	N/A	**56**	**51**	**43**	**20**	**22**	**23**	**31**	**6.5**	**20**
	Zinc	N/A	10,000	10,000	100	N/A	**170**	**120**	**28**	**38**	**38**	**22**	**68**	**37**	**39**
Cyanide															
(mg/kg)	Cyanide	N/A	1,000	1,900	N/A	N/A	**0.68**	**2.6**	0.58 U	0.64 U	0.69 U	**1.0**	0.52 U	1.2 U	1.0 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are equal to or less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

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^ - RAGs for Chromium (+6) used.

TABLE 8
SUMMARY OF RECEPTOR RISKS AND HAZARDS
Little Falls Site
Hydro & Transmission Line Properties
Windham and Gorham, Maine

Exposure Point	Scenario/ Receptor	Exposure Media	Total Cancer Risks	Total Noncancer Risks	Primary contributors to risk (ILCR > 1E-06, HI > 1)
Hydro Property	Current Adult Non-Intrusive Worker	surface soil	2E-06	2E-02	N/A
Northern Transmission Line Property	Current Adult Non-Intrusive Worker	surface soil	7E-06	2E-01	N/A
South Bank Area	Current Adult Non-Intrusive Worker	surface soil	2E-06	1E-02	N/A
Hydro Property	Current Adult Indoor Worker	surface soil	9E-07	1E-02	N/A
Hydro Property	Current Older Child Trespasser	surface soil	3E-06	6E-02	N/A
Northern Transmission Line Property	Current Older Child Trespasser	surface soil	1E-05	4E-01	N/A
South Bank Area	Current Older Child Trespasser	surface soil	4E-06	3E-02	N/A
Hydro Property	Future Adult Non-Intrusive Worker	surface/subsurface soil	1E-05	3E-02	N/A
Northern Transmission Line Property	Future Adult Non-Intrusive Worker	surface/subsurface soil	4E-06	6E-02	N/A
South Bank Area	Future Adult Non-Intrusive Worker	surface/subsurface soil	2E-06	1E-02	N/A
Hydro Property	Future Adult Indoor Worker	surface/subsurface soil	4E-06	1E-02	N/A
Hydro Property	Future Older Child Trespasser	surface/subsurface soil	1E-05	7E-02	N/A
Northern Transmission Line Property	Future Older Child Trespasser	surface/subsurface soil	5E-06	2E-01	N/A
South Bank Area	Future Older Child Trespasser	surface/subsurface soil	4E-06	3E-02	N/A
Northern Transmission Line Property	Future Adult Intrusive Worker	surface/subsurface soil	1E-05	2E-01	N/A
South Bank Area	Future Adult Intrusive Worker	surface/subsurface soil	6E-06	4E-02	N/A
Hydro Property	Future Adult Construction Worker	surface/subsurface soil	6E-06	6E-01	N/A
Northern Transmission Line Property	Future Adult Construction Worker	surface/subsurface soil	2E-06	1E+00	Note that the Adult Lead Model indicates that lead would pose a risk to this receptor.
South Bank Area	Future Adult Construction Worker	surface/subsurface soil	1E-06	2E-01	N/A

Notes

Bolded values exceed a cancer risk of 1E-05 or a target organ HI of 1.
HI - Hazard Index
ILCR - Incremental Lifetime Cancer Risk

Table 9

Analysis of Remedial Alternatives - Transmission Line Property

	REMEDIAL ALTERNATIVES						
	1	**2**	**3**	**4**	**5**	**6**	**7**
	No Action	**Environmental Covenant**	**Soil Cover/Environmental Covenant**	**RCRA Subtitle C Landfill Cover/Environmental Covenant**	**On-Site Treatment (Chemical Fixation)/ Environmental Covenant**	**Limited Removal/Environmental Covenant**	**Limited Removal/Cover/Environmental Covenant**
	Description: In this alternative, no actions undertaken at the Site.	**Description:** In this alternative, an institutional control will be placed on the property to maintain current commercial or industrial use, and to prevent residential and recreational uses.	Description: In this alternative, impacted soil remains on-Site. Existing trees and other vegetation will be removed in northern portion of property (approximately 1.1 acres), ground surface graded to eliminate depressions, covered with clean soil and vegetated. An institutional control will be placed on the property to maintain current commercial or industrial use, and to prevent residential and recreational uses, and to maintain the integrity of the soil cover.	Description: In this alternative, lead soils exceeding 2,000 mg/kg are consolidated and covered with a RCRA Subtitle C cover (0.12 acres) and revegetated. An institutional control will be placed on the property to maintain current commercial or industrial use, and to prevent residential/recreational uses, and prevent penetration of the landfill cover.	Description: In this alternative, lead soils exceeding 2,000 mg/kg are mixed with a chemical stabilizer and placed back in the excavation, covered by soil and revegetated. An institutional control will be placed on the property to maintain current commercial or industrial use, to prevent residential and recreational uses, and to maintain the integrity of the soil cover protecting stabilized soil. Assume soil volume 732 cubic yards.	Description: In this alternative, lead soils exceeding 2,000 mg/kg are excavated and disposed off-site as hazardous waste, and the excavation backfilled with certified clean soil, and revegetated. An institutional control will be placed on the property to maintain current commercial or industrial use, and to prevent residential and recreational uses. Assume soil volume, 732 cubic yards.	Description: In this alternative, lead soils exceeding 2,000 mg/kg are excavated and disposed off-site as hazardous waste, the excavation backfilled and the 1.1 acre site graded, covered with soil and revegetated. An institutional control will be placed on the property to maintain current commercial or industrial use, and to prevent residential and recreational uses, and to maintain the integrity of the soil cover.
Overall protection of human health and the environment	This alternative is not expected to be protective of human health and the environment.	This alternative is expected to control human exposure to fill materials.	This alternative is expected to control human exposure to fill materials and prevent direct contact with fill materials.	This alternative is expected to control human exposure to fill materials.	This alternative is expected to control human exposure to fill materials.	This alternative is expected to control human exposure to fill materials.	This alternative is expected to control human exposure to lead impacted soils and prevent direct contact with fill materials.
Compliance with ARARs	This alternative does not advance or enhance compliance with ARARs.	In this alternative, ARARs include state/town requirements for an institutional control.	In this alternative, ARARS for implementation include state/town requirements for facility siting/construction, shoreline zoning, NEPA, stormwater and Environmental Covenant.	In this alternative, ARARS include federal RCRA Subtitle C requirements, and state/town requirements for shoreline zoning, NEPA, stormwater and Environmental Covenant.	In this alternative, ARARS include RCRA requirements, and state/town requirements for shoreline zoning, NEPA, stormwater and Environmental Covenant.	In this alternative, ARARS include RCRA requirements, and state/town requirements for shoreline zoning, NEPA, stormwater and Environmental Covenant.	In this alternative, ARARS include RCRA requirements, and state/town requirements for shoreline zoning, NEPA, stormwater and Environmental Covenant.
Long-term effectiveness and permanence	This alternative does not provide long-term effectiveness and permanence.	This alternative provides institutional control for exposure reduction/prevention in perpetuity.	This alternative provides a barrier to exposures to hazardous waste and institutional control for exposure reduction/prevention in perpetuity.	This alternative provides a barrier to exposures to hazardous waste and institutional control for exposure reduction/prevention in perpetuity.	This alternative provides a permanent removal of hazardous waste and institutional control for exposure reduction/prevention in perpetuity.	This alternative provides a permanent removal of hazardous waste and institutional control for exposure reduction/prevention in perpetuity.	This alternative provides a permanent removal of hazardous waste and institutional control for exposure reduction/prevention in perpetuity.
Reduction in toxicity, mobility through treatment	This alternative provides no reduction in toxicity and mobility.	This alternative provides no reduction in toxicity and mobility.	This alternative does not provide reduction in toxicity and mobility. Mobility may increase in the short term due to construction by infiltrating precipitation; however, this is expected to be mitigated by site controls during implementation and have improved stabilization over the long term when completed.	This alternative is expected to reduce toxicity and mobility as a result of reduced infiltration of precipitation, and by providing a barrier to impacted soils.	This alternative is expected to reduce toxicity and mobility of soil where applied; however, the stabilized soil may degrade over the long term due to natural weathering of the stabilized mass.	This alternative is expected to eliminate toxicity and mobility of materials removed from the site and long-term effectiveness and permanence, where applied.	This alternative is expected to eliminate toxicity and mobility of hazardous waste removed from the site and long-term effectiveness and permanence, where applied.
Short-term effectiveness	Short term risks are not significant based on the scenarios evaluated in the risk assessment.	Short term risks are not expected to be significant based on the scenarios evaluated in the risk assessment, but the institutional control does provide additional reduction of risk.	Short term risks are not expected to be significant based on the scenarios evaluated in the risk assessment, but the institutional control does provide incremental further reduction of risk.	Short term risks are not expected to be significant based on the scenarios. Short term impacts to construction workers are expected to be mitigated by a Health and Safety Plan.	Short term risks are not expected to be significant. Short term impacts to construction workers are expected to be mitigated by a Health and Safety Plan.	Short term risks are not expected to be significant. Short term impacts to construction workers are expected to be mitigated by a Health and Safety Plan.	Short term risks are not expected to be significant. Short term impacts to construction workers are expected to be mitigated by a Health and Safety Plan.
Implementability	Not Applicable.	DEP would have to agree to covenant. Approvals from DEP is expected	This alternative is technically and administratively feasible, and trained workers and equipment are available in the greater Portland area that can support implementation. DEP approval of covenant tis expected.	This alternative is both technically and administratively feasible, and trained workers and equipment are available in the greater Portland area that can support implementation. Would require a RCRA permit and 5 year renewals. DEP approval of covenant tis expected.	This alternative is both technically and administratively feasible, and equipment are available in the greater Portland area that can support implementation; however, specialized workers with experience in this technology may need to come from outside of Maine, which is expected to impact schedule and cost for implementation of this alternative. DEP approval of covenant tis expected.	This alternative is both technically and administratively feasible, and trained workers and equipment are available in the greater Portland area that can support implementation. DEP approval of covenant tis expected.	This alternative is both technically and administratively feasible, and trained workers and equipment are available in the greater Portland area that can support implementation. DEP approval of covenant tis expected.
Green Remediation	Not Applicable.	Not applicable	This alternative conserves landfill space by minimizing waste generation and Green Remediation priciples can be emphasized through the use of local backfill sources (if available), use of native vegetative cover, regular equipment inspection/maintenance, limiting equipment idling, use of energy/fuel efficient equipment (if available), etc.	This alternative conserves landfill space by minimizing waste generation and Green Remediation priciples can be emphasized through regular equipment inspection/maintenance, limiting equipment idling, and the use of energy/fuel efficient equipment (if available) during both construction and maintenance.	This alternative conserves landfill space by minimizing waste generation through onsite reuse and Green Remediation priciples can be emphasized through the use of local backfill sources (if available), use of native vegetative cover, regular equipment inspection/maintenance, limiting equipment idling, use of energy/fuel efficient equipment (if available), etc.	Green Remediation priciples can be emphasized through soil removal pre-planning, maximizing the efficiency of transportation/disposal, use of local backfill sources, regular equipment inspection/maintenance, limiting equipment idling, use of energy/fuel efficient equipment (if available), etc.	Green Remediation priciples can be emphasized through soil removal pre-planning, maximizing the efficiency of transportation/disposal, use of local backfill sources, use of native vegetative cover, regular equipment inspection/maintenance, limiting equipment idling, use of energy/fuel efficient equipment (if available), etc.
Estimated Cost	$0	$10,000-$15,000 (Plus $10,000/year for inspections, maintenance, and reporting)	$300,000 - $350,000 (Plus $20,000/year for inspections, maintenance, and reporting)	$150,000 - $200,000 (Plus $35,000/year for licensing, inspections, maintenance, and reporting)	$170,000 - $200,000 (Plus $15,000/year for inspections, maintenance, and reporting)	$550,000 - $600,000 (Plus $10,000/year for inspections, maintenance, and reporting)	$800,000 - $900,000 (Plus $20,000/year for inspections, maintenance, and reporting)
Retain	No	Yes	Yes	No	No	No	Yes

Notes:

1. This table applies to the Northern Transmission Property where the risk assessment indicated lead posed a risk for MEDEP default excavation or construction worker; this condition does not exist on the Hydro Property (see Section 7.3 for additional details).

Abbreviations:

ARARs - Applicable or Relevant and Appropriate Requirements

NRPA - Natural Resource Protection Act

RCRA - Resource Conservation and Recovery Act

TSCA - Toxic Substances Control Act

APPENDIX A

Phase I Environmental Site Assessment, Little Falls Site, Windham and Gorham, Maine (September 6, 2012)

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Little Falls Site
Hydro & Transmission Line Property
Windham and Gorham, Maine

TRC Project Number: 191981.0000.0000

Prepared For:

S.D. Warren Company
d/b/a Sappi Fine Paper North America
255 State Street
Boston, Massachusetts 02109

Prepared By:

TRC Environmental Corporation
400 Southborough Drive
South Portland, Maine 04106
Phone: (207) 879-1930

September 06, 2012

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Little Falls Site
Hydro & Transmission Line Property
Windham and Gorham, Maine

September 06, 2012

TRC Project Number: 191981.0000.0000

Prepared For:

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed for the properties known as the Little Falls Hydro and Transmission Line Properties (the Site), which for purposes of this ESA is made up of three parcels of land. The Site totals 19.98-acres of land and includes the adjacent river bed. This assessment has been prepared for S.D. Warren Company d/b/a Sappi Fine Paper North America (Sappi or Client) by TRC Environmental Corporation (TRC) in accord with the American Society for Testing and Materials (ASTM) E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and the All Appropriate Inquiries (AAI) Rule (70 Fed. Reg. 66070) titled "40 CFR Part 312, *Standards and Practices for All Appropriate Inquiries* (AAI regulation).

The purpose of this assessment was to identify *recognized environmental conditions* (RECs) as defined in the ASTM E 1527-05 Standard, in connection with the Site. The ASTM E 1527-05 Standard defines a REC as *"the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."*

The Site is property owned by Sappi located off Main Street, Gray Road and Mallison Falls Road, in the Towns of Windham and Gorham Cumberland County, Maine. The Site consists of three parcels for the purposes of this Phase I ESA one of which is river bottom of the Presumpscot River. The Site also consists of one parcel that includes a hydroelectric power generation station, associated impoundment dam, and a parking lot. The third parcel includes a transmission line, and undeveloped land.

This Phase I ESA consisted of the following tasks:

- Site reconnaissance, including visual inspection of the Site and drive by inspection of adjacent properties;
- Review of environmental database report and local regulatory agency records;
- Investigation and description of historical Site conditions;
- Review of prior environmental reports;
- Interviews with owners, operators, occupants, and local government officials; and
- Preparation of a final report summarizing findings, opinions, and conclusions.

This assessment has revealed three RECs in connection with the Site.

- On-Site dumping of historical mill waste and documented soil contamination;
- Off-Site contamination at the adjacent Keddy Mill property; and
- Off-Site kerosene release from the adjacent 859 Gray Road residential property.

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) prepared this Phase I Environmental Site Assessment (ESA) for S.D. Warren Company d/b/a Sappi Fine Paper of North America (Sappi, i.e. the Client and the User) for the Little Falls Hydro and Transmission Line properties, located off Main Street, Gray Road and Mallison Falls Road, in the Towns of Windham and Gorham, Cumberland County, Maine (the Site) as shown on Figure 1 in Appendix 1.

The Phase I ESA was performed in accord with the American Society for Testing and Materials (ASTM) E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and the All Appropriate Inquiries (AAI) Rule (70 Fed. Reg. 66070) titled "40 CFR Part 312, *Standards and Practices for All Appropriate Inquiries* (AAI regulation) and is solely intended for the use of the Client.

1.1 Statement of Purpose

The purpose of this assessment was to identify *recognized environmental conditions* (RECs) as defined in ASTM E 1527-05 Standard that have the potential to impact the Site. The ASTM E 1527-05 Standard defines a REC as *"the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."*

This report documents the findings, opinions, and conclusions of the Phase I ESA.

1.2 Scope of Investigation/Services

In accordance with ASTM E 1527-05, this Phase I ESA consisted of the following tasks:

- Site reconnaissance, including visual inspection of the Site and drive by inspection of adjacent properties;
- Review of environmental database report and local regulatory agency records;
- Investigation and description of historical Site conditions;
- Review of prior environmental reports;
- Interviews with owners, operators, occupants, and local government officials; and
- Preparation of a final report summarizing findings, opinions, and conclusions.

No services beyond those required by ASTM E 1527-05 were completed during the course of this assessment. Accordingly, TRC did not conduct environmental sampling, surveys for asbestos, indoor air quality, lead-based paint, radon gas or lead in drinking water at the Site.

1.3 Limitations

In accordance with the ASTM E 1527-05 Standard and AAI regulation, TRC has performed an evaluation of data gaps in connection with information provided and obtained during the course of this assessment. Data gaps generally reflect the inability to obtain required data despite efforts made to acquire reasonably ascertainable information pertaining to the Site. Data failures generally reflect the inability to obtain and/or utilize information sources and are typically associated with research regarding standard historical sources.

No data gaps or data failures were identified during this Phase I ESA however the following "limiting Conditions" were noted:

- The Furnace Room beneath the apartment portion of the hydro building (Powerhouse) was not completely observed due to lack of safe access to this lower level (stairs do not exist from the main floor to the lower level). Limited observation of the room was made from a platform that extended just below the room ceiling with a flashlight. The eastern side of the room was observed without obstruction but the western portion could not be observed from this vantage point. Sappi subsequently provided photographic documentation of the furnace room. The inability for TRC to visual observe the entire area is considered a limiting condition for this report; however; due to the provided photographic information this limiting condition is not expected alter the outcome of this report.

- The river bottom at the Site and sediments upstream of the hydro-electric generation station and impoundment dam were not observed due to the presence of water in the river channel and fore bay and therefore is considered a limiting condition for this report, this limitation has a low probability of altering the conclusions of this report.

- The size and forested nature of the Site is considered a limiting condition to the Phase I ESA as it limited TRC's ability to observe all surficial soil conditions at the Site. However, based on the current and historic undeveloped nature of the Site, this limitation has a low probability of altering the conclusions of this report.

- The island adjacent to the dam could only be observed from a distance and is therefore considered a limiting condition of this report. This limitation has a low probability of altering the conclusions of this report.

- The Sappi owned parcel in Gorham on the south side of the river was viewed from the top of the dam from the right of way off Gray Road. This portion of the Site was not safely accessible due to a steep slope. From the elevated vantage point the parcel appears to be generally bare bedrock with natural pools and rapids from the river. However, based on the current and historic undeveloped nature of the Site and presence of the Presumpscot River through this parcel, this limitation has a low probability of altering the conclusions of this report.

1.3.1 Accuracy and Completeness

TRC makes no guarantees as to the accuracy or completeness of information obtained from others. It is possible that information exists beyond the scope of this investigation or that was not provided to TRC during the course of this investigation. Additional data subsequently provided, discovered, or produced might alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon the information reasonably available and observed Site conditions at the time of this assessment, subject to the limitations noted herein. Conditions may have changed since that time and the findings and conclusions of this report are not meant to forecast future conditions at the Site.

1.3.2 Warranties and Representations

This report does not warrant against: (1) operations or conditions which were not in evidence from visual observations or historical information obtained; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; or (3) locations other than Client-provided

addresses and/or legal parcel description or information regarding off-Site locations (with possible impact on the subject properties) not published in available records.

1.3.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with the limitations specified in ASTM E 1527-05, for a period of 180 days from the date of this ESA, or until the Client obtains specific information that may materially alter a Finding, Opinion, or Conclusion in this report or until the Client is notified by TRC that it has obtained specific information that materially alter a Finding, Opinion, or Conclusion in this report. This report may not be relied on by any party other than the Client with whom TRC has contracted to prepare this report and the User identified herein.

1.3.4 Exceptions to the ASTM E 1527-05 Practice

The protocol utilized for this Phase I ESA was in accordance with the requirements of the ASTM E 1527-05 Standard. No exceptions were identified.

1.3.5 Significant Assumptions

For the purpose of assessing and evaluating upgradient and downgradient releases, groundwater at the Site is presumed to flow generally towards the Presumpscot River. The Presumpscot River flows to the south-southeast, originating in Sebago Lake and discharging to Casco Bay approximately nine miles east of the Site in Portland, Maine.

No other significant assumptions were made in the preparation of this Phase I ESA report.

2.0 SITE DESCRIPTION

The Site is located off Main Street, Gray Road and Mallison Falls Road, in the Towns of Windham and Gorham Cumberland County, Maine. The Site consists of three parcels land and for the purposes of this Phase I ESA. The Client indicated that the Site includes portions of the river bottom of the Presumpscot River. The Site also consists of a hydroelectric power generation station, associated impoundment dam, parking lot, transmission line, and undeveloped land.

For the purposes of discussion and analysis in this Phase I ESA, TRC has divided the three parcels that make up the Site into two parts: 1) the "Hydro Property" which includes the dam, powerhouse, parking lot and river bottom upstream of the dam structure, and 2) the "Transmission Line Property" which includes the wooded parcel on the eastern side of the river, the island, and all other Sappi owned property, including riverbed owned by Sappi, downstream of the dam structure. This distinction was drawn by TRC to facilitate discussion of upstream versus downstream environmental impacts and well as nearby properties.

The Hydro Property is improved with a hydro-electric dam, a vacant/unused three story residential apartment on the southern end of the turbine house that the former owner intended for residential use (the apartment was never residentially occupied), and a parking lot. The Hydro Property is accessed off Main St in Windham and a private right of way on the southern side of the Main Street Bridge off Gray Road in Gorham. The Transmission Line Property (northeast and eastern portion of the Site) is generally vacant with utility poles and a cleared access way. This portion of the Site may be accessed via a Maine Department of Transportation (MEDOT) dirt "road" (former rail bed) located off Depot Street (along the abutting railroad tracks on the Keddy Mill Site and the MEDOT Right of Way to the west), and the Gorham portion of the Site is accessed via Route 202 and via Sappi-owned access rights on the southern side of the Main Street Bridge off Gray Road in Gorham.

The approximate coordinates of the Site are 43° 44' 2.64" North, 70° 25' 25.88" West. The Site is located on the United States Geological Survey (USGS) 7.5-minute series *Gorham, Maine* topographic quadrangle map dated 2011.

A Site Location Map identifying the general Site vicinity is provided as Figure 1 of Appendix 1 and a Site Plan is provided as Figure 2 of Appendix 1. Photographs from the May 11, 2012 Site Reconnaissance are included in the Appendix 2 photo log, and documentation of interviews is provided in Appendix 3.

2.1 Site Background

Based on the *Summary of Historical Information of the Presumpscot River from Early Histories of the Adjoining Towns* the northwest portion of the Site (Hydro Property) was first developed as a saw mill in the mid-1750s by Major William Knight. In 1756, a grist mill and carding mill was constructed adjacent to the saw mill. A second saw mill was constructed on the Gorham side (south side) of the river in 1767. Cumberland Cotton Manufacturing purchased the property in 1825, which was later destroyed by fire in 1856. The current mill was constructed in 1875 by C.A. Brown and Company and was purchased by the Androscoggin Pulp Company in 1900. The Site was a portion of this larger mill complex until 1945 when the mill complex was subdivided for individual sale. The portions of the mill that occupied the current parking lot portion of the Site at the Hydro Property throughout this early history were a storehouse, machine rooms and steam drying room. The wood grinders and beater engines for a box board mill occupied the portion of the Site where the current Powerhouse exists over the river.

According to the Sanborn Maps and historical ownership traced back through the Cumberland County Registry of Deeds, the Androscoggin Pulp Company manufactured ground wood pulp and box board

from construction through approximately 1940 when Cumberland Security Company (CSC) took ownership of the Site and adjacent mill. CSC leased the mill space to Windham Fibres and J. W. Ellis while operating the dam as a power supply. A portion of the mill was leased to Maine Steel prior to 1945 and they reportedly purchased the mill property in 1945. In 1954, Atlantic Mills Incorporated purchased the portion of the larger property that is currently the northwest portion of the Site. Based on an aerial photograph from 1956, the portions of the mill that occupied the northwest portion of the Site had been demolished and this portion of the Site was occupied by only the hydro-electric dam.

According to historical topographic maps, the eastern portion of the Site (Transmission Line Property) has historically been undeveloped since at least 1891. Evidence of the historic mill operation to the north of this portion of the Site is apparent in numerous places the northeastern uplands of the Site as observed during the March 11, 2012 Site Reconnaissance. Dumping of waste is apparent due to the visually observed presence of drums, scrap metal (rusting), slag, glass, bricks and similar debris (see Section 5.9 for additional information). The dumping is likely to have occurred many years in the past as mature trees are growing out of and above the deposited materials with roots wrapping around larger pieces of debris. Based on review of historical aerial photographs, this dumping occurred prior to 1975 when the northern portion of the Site appeared to be unvegetated. This is consistent with the approximate years of steel manufacturing from the 1940s through early 1970s. By 1986 the northern land portion of the Site is becoming increasingly vegetated and by 2011 is entirely wooded.

According to multiple interviewees and the *National Register of Historic Places*, in 1961 Lawrence Keddy (Keddy Manufacturing Company) purchased the overall mill property, including the Site and adjacent Keddy Mill Property. Mr. Keddy was an engineer and rebuilt the dam between 1961 and 1965 to its current conditions. Steel production reportedly continued at the adjacent mill until 1974. In 1974, the hydro-electric generation station, transmission line and impoundment dam were transferred to S.D. Warren Company (At the time a subsidiary of Scott Paper Company. S.D. Warren Company is referred to in this report as Sappi) to generate and transmit power for the paper mill it owned in Westbrook. All current structures at the Site were in place at this time. The date of installation of the transmission line poles could not be determined through available historical resources and interviews. In 1974, Keddy Manufacturing Company shut down operation at the adjacent mill complex. The adjacent mill complex has been inactive since the mid-1970s according to Sappi employees who began visiting the Site at that time.

Sappi has operated the Site since 1974 exclusively for power generation purposes.

2.2 Legal Description of the Site

The Site is located off Main Street, Gray Road and Mallison Falls Road, in the Towns of Windham and Gorham, Cumberland County, Maine. According to information obtained from the Town of Windham Assessor's Department, the Windham parcels are identified on Assessor's Map 38 as Lot 10 with an address of One Main Street and Map 3, Lot 8a with an address of 8 Mallison Falls Road. According to information obtained from the Town for Gorham Assessor's Department, the Gorham parcel is identified as Map 111, Lot 19L with an address of Gray Road and as "river" which does not have a legal description. All parcels are currently owned by Sappi (S.D. Warren as indicated on the Assessor's Card).

According to the Town of Windham Zoning Map, the Windham portion of the Site is zoned village commercial in the general development district. Surrounding areas are zoned medium residential and South Windham contract zones. The Gorham side of the Site is zoned as the Presumpscot River and Urban Residential Manufactured Housing with Little Falls Village Center zoned to the south.

The 1974 Purchase and Sale Agreement between Lawrence J. Keddy and Scott Paper Company describes the land, structures, machinery and electrical equipment that were transferred to the Scott Paper Company. The deed provides the legal boundaries of the Site.

Appendix 4 provides photocopies of the property record card describing the Site, the assessor's tax maps for Windham and Gorham depicting the area of the Site, the Gorham Interactive Map showing the Gorham parcel, a legal description of the Site as derived from the Site's deed, the Purchase and Sale Agreement, a recent surveyed plan of the Site and the Town of Windham and Town of Gorham Zoning Maps.

2.3 Site and Vicinity General Characteristics

The Site is located in a mixed-use area characterized by commercial, residential and industrial development immediately adjacent to the Site. Topography of the Site and surrounding vicinity is generally flat to gently sloping to the south in the north and northwest portion of the Site and sloping to the west in the eastern portion of the Site toward the Presumpscot River. The Site slopes steeply in some areas on the eastern bank of the river.

2.4 Description of Site Improvements

The portion of the Site that extends out over the Presumpscot River is developed with a hydro-electric power generation station with associated turbines and an unused/vacant residential apartment in the dam that was rebuilt from 1961 to 1965 according to the *National Register of Historic Places*. The dam is constructed on a concrete foundation overlying the old foundation from the former mill structure that occupied the property. The former foundation with arches can be observed from this lower deck to the east of the Site. The exterior walls are constructed of brick masonry and the structure is supported by concrete buttresses on both sides.

The main structure, or Powerhouse, contains four turbine generators each producing up to 2,400 kilowatts (kW) of electricity, which is stepped up by an onsite transformer to 11,000 kW for transmission to Sappi's Westbrook mill. The transformer is located on a lower deck on the eastern side (downstream) of the Powerhouse. Three 333 kilo-volt ampere (KVA) transformers formerly occupied this location according to the historical plans and other information. Additional information regarding the transformers is provided in Section 4.4.6. The Powerhouse is currently heated via the residual generator heat and is not cooled during the summer months. Electrical service for the building enters via two pole type transformers (on the eastern wall) that have reportedly been used since the building was constructed.

An unused/vacant residential apartment is located off the southern end of the powerhouse structure. The residential apartment is attached to the powerhouse/dam structure but is not a functional part of the power generation process. The apartment is a three-story structure that is currently used for limited material and equipment storage. The apartment is generally in poor condition with several areas of water and ceiling damage. A room that houses the apartment's furnace and other utilities (furnace room) is located on the lower level, beneath the living areas, and formerly supplied water and heating to the residence. The apartment's main level contains living areas and bedrooms and the upper level contains a kitchen, living room with a fireplace, dining area and two small bedrooms or offices. The apartment is accessed via a walkway on the eastern side of the powerhouse and through the powerhouse. David Rolfe observed a sanitary discharge pipe to the Presumpscot River in 1974. The current status of this discharge pipe is not known. The apartment is not connected to public water and copper water piping has been removed. The furnace is no longer in operation and heating oil is not delivered to the Site.

The Site is also occupied by an approximately 12-foot concrete and granite spillway dam. The granite portion was constructed in the 1800s and the concrete section replaced the former timber section in 1961 according to the *National Register of Historic Places*. The dam contains three sluicegates.

The land in the northwest portion of the Site is currently vacant and used as an unpaved driveway and parking lot.

The eastern portion of the Site is currently undeveloped with the exception of seven pole structures associated with the electrical transmission line. A 30-foot wide access way has been cleared along the length of the transmission line.

2.5 Current Uses of Adjoining Properties

During the course of this assessment, TRC conducted a curbside inspection of adjacent property conditions from the boundaries of the Site and performed a drive-by reconnaissance of nearby surrounding areas to assess potential environmental impacts from off-Site properties. On the Keddy Mill Property, TRC observed abundant demolition debris, waste drums and an old foundation in a fenced off area just to the northeast of the Site parking lot. The fence was recently labeled "*Warning, No Trespassing, Hazardous Materials*"; Sappi reports that this fence and sign were recently installed around the Keddy Mill at the request of the Maine Department of Environmental Protection. TRC observed some solid waste including broken concrete barriers and used railroad ties along the MEDOT property to the east of the Site. TRC observed or has knowledge of multiple upstream historical mill properties which may or may not have contributed to upstream contamination in the Presumpscot River.

A summary of TRC's visual observations and descriptions of current uses of surrounding properties are summarized in Table 2-1:

Table 2-1: Current Use of Adjoining and Nearby Properties

Approximate Direction from Site	Approximate Distance from Site	Address	Occupant/Feature Name	Description of Current Use	Observations/Potential Environmental Concerns
North & Northeast	Adjacent	7 Depot Street	Keddy Mill	Vacant mill building	Observed debris, documented releases and known contamination (REM01538)*
North	Adjacent	3 Depot Street	Little Falls Landing	Avesta apartment housing	None
Northwest (across street)	Approx. 100-feet	Main Street	South Windham Fire Company	Volunteer fire department	None
West	Adjacent	Main Street / Gray Road	NA	Bridge	None
	Approx. 400-feet	Gray Road	Various	Residential	Several residential fuel oil releases*
Southwest	Adjacent	859 Gray Road	Residential	Residential	Spill number P-130-2011*
	Approx. 100-feet	Gray Road	South Windham Public Library	Library	None

Table 2-1: Current Use of Adjoining and Nearby Properties					
Approximate Direction from Site	**Approximate Distance from Site**	**Address**	**Occupant/Feature Name**	**Description of Current Use**	**Observations/Potential Environmental Concerns**
West & South	Adjacent	NA	Presumpscot River	River	Potential environmental impacts from upstream/adjacent historic mill use, including the Keddy Mill*
Southeast	Adjacent	Mallison Falls Road	NA	Parking Lot	Vehicle & boat parking and storage
East	Adjacent	NA	MEDOT	unimproved road (rails removed)	Observed solid waste (used RR ties, concrete, ,etc)*

Notes:
NA- not applicable
REM – Remediation number prefix
P – Spill number prefix for MEDEP Portland region spills
MEDOT – Maine Department of Transportation
* - Further discussed in this Phase I ESA Report

3.0 USER PROVIDED INFORMATION

A User Statement was provided by Sappi (the User) on June 1, 2012. The following section summarizes information provided by Sappi with regard to this assessment. A copy of the User Statement is provided in Appendix 3.

3.1 Title Records

The User provided a copy of the Purchase and Sale Agreement and the deed for review by TRC.

3.2 Environmental Liens or Activity and Use Limitations

Pierce Atwood LLP, on behalf of the User, indicated that it has found no record of environmental liens filed against the Site.

3.3 Specialized Knowledge

The User indicated that they are "not in the business of detecting or remedying environmental contamination." Based on this statement they have no additional knowledge pertaining to the REC identified in the following Section 3.4.

3.4 Commonly Known or Reasonably Ascertainable Information

The User indicated that they are aware of a REC associated with the northeast portion of the Transmission Line Property. The User indicated that a 2010/2011 investigation (described later in this ESA) identified lead, iron, cobalt, manganese and polychlorinated biphenyls (PCBs) in soil in this area.

3.5 Valuation Reduction for Environmental Issues

The User indicated that there was no price reduction related to environmental issues from the purchase price in 1974.

3.6 Owner, Property Manager, and Occupant Information

S.D. Warren Company doing business as Sappi Fine Paper North America was identified as the Site owner. The "Key Site Manager", for ASTM purposes, has been identified as Mr. Tom Howard, Environmental Manager for Sappi. There are no occupants at the Site.

3.7 Reason for Performing Phase I

The User has requested this Phase I to assist in identifying possible RECs for the Site.

3.8 Other User Provided Documents

The User provided TRC with copies of prior reports for adjacent property investigations, historic plans and other documents pertaining to the Site building and/or environmental conditions at the Site. The User also provided photographic documentation of the furnace room below the residential apartment at Little Falls Dam (see Appendix 3). These references have been described where appropriate throughout this report.

4.0 RECORDS REVIEW

The following sections summarize information obtained through a review of available historical and environmental records.

4.1 Physical Setting Sources

4.1.1 Topography

The Site is located on the USGS 7.5-minute series *Gorham Quadrangle, Maine,* topographic map dated 2011. TRC's review of the map indicates that the elevation of the Site is approximately 97-feet above mean sea level (amsl). The topography of the Site is generally flat to gently sloping to the south in the northern portion of the Site and towards the Presumpscot River to the west in the eastern portion of the Site. The slope is steep in some locations throughout the eastern portion of the Site. A copy of an excerpt from the topographic map is included in Appendix 1 as Figure 1.

4.1.2 Geology

Bedrock Geology

According to the *Bedrock Geology of the Portland 1:100,000 Quadrangle, Maine and New Hampshire* map, the Site and surrounding areas are underlain by Silurian and Ordovician bluish to purplish-gray, biotite-quartz-plagioclase granofels with thin interbeds of greenish-gray calc-silicate granofels and minor pelitic schist layers of the Hutchins Corner Formation in the Central Maine Sequence.

Based on the *Overburden Thickness Portland 30 x 60-minute Quadrangle Map,* depth to bedrock in the area of the Site ranges from approximately 75 to 100-feet to west of the Site and approximately 10 to 15-feet at a point closer to the river to the southeast. Bedrock was observed to the east (downstream) of the dam structure at an approximate elevation within the river bed of 15 to 25-feet below the surrounding area ground surface elevation.

A copy of the Gorham, Maine quadrangle bedrock geology map has been included in Appendix 8.

Surficial Geology

According to the *Surficial Geology of the Portland 1:100,000 Quadrangle, Maine* map, the Site is underlain by silt, clay and sand deposited on the historic seafloor. These marine sediments are part of the Presumpscot Formation. A copy of the Portland, Maine quadrangle surficial geology map has been included in Appendix 8.

Based on information reviewed in the Environmental Data Resource (EDR) report, which is derived from the *U.S. Department of Agriculture Soil Conservation Service State Soil Geographic* (*STATSGO)* federal database, soils identified on the Site and within immediately surrounding areas are classified as *Cut and Fill Land,* which consists of very gravelly sandy loam with slow infiltration rates; and *Podunk Soils*, which consists of fine sandy loam with moderate infiltration rates. Other nearby soils are classified as *Water Bodies Greater Soils* to the west; *Hollis Soils* to the southeast, which consist of fine sandy loam with somewhat excessive drainage; *Suffield Soils* to the southwest, which consist of silt loam with slow infiltration rates; *Swanton Soils* to the southwest, which consist of fine sandy loams that a poorly drained; and *Buxton Soils* to the west, which consist of silt loam with slow infiltration rates.

4.1.3 Hydrogeology

The Presumpscot River flows through the Site towards the east/south. The river is dammed in the northwest portion of the Site as well as at several other locations along the river's length between Sebago Lake and Casco Bay. The river meanders and flows into Casco Bay approximately 9-miles to the east.

According to the *Significant Sand and Gravel Aquifer Map* for the Gorham, Maine Quadrangle, the Site is not located within a Significant Sand and Gravel Aquifer. The Site is located near the center of a mapped surface water/groundwater divide. Groundwater from surrounding properties is presumed to flow toward the Site and toward the Presumpscot River. A copy of the Portland, Maine quadrangle sand and gravel aquifer map has been included in Appendix 8.

According to the U.S. Fish and Wildlife National Wetlands Inventory, the river portion of the Site is identified as riverine area. No mapped wetlands or riparian zones are located at the Site. A copy of the wetlands map has been included in Appendix 8.

Based on this information, assessment of potential off-Site environmental impacts will primarily focus on properties located to the west, northwest, north, northeast, and east of the Site, as they are considered hydrogeologically upgradient.

4.1.4 Discretionary and Non-Standard Physical Setting Sources

No discretionary or non-standard physical setting sources were reviewed for this assessment.

4.2 Standard Environmental Record Sources

In accordance with the ASTM Standard E 1527-05, a computerized radius search of pertinent federal, state, and tribal environmental record databases was performed by EDR of Milford, Connecticut. The database search was conducted to identify environmental regulatory records associated with the Site and nearby properties that would indicate environmental conditions (i.e., reported releases of hazardous substances and/or petroleum products), which may have potential to adversely impact the Site and surrounding vicinity.

Due to poor or missing address information, 20 un-mappable ("orphan") listings were identified by EDR as being located within the general area of the Site. These listings were reviewed and evaluated using available address and facility name information established through interviews, Site reconnaissance, and on-line mapping services. A summary of the database search findings is presented in the following table and a copy of the complete EDR regulatory database search report is included in Appendix 5.

Table 4-1: Summary of Database Search Findings

Regulatory Database	Minimum Search Distance	Site Listed?	Number of Listings Identified within Searched Distances
Federal Records			
United States Environmental Protection Agency (USEPA), National Priorities List (NPL)	1 mile	No	0
USEPA, NPL LIENS	Site	No	0

Table 4-1: Summary of Database Search Findings

Regulatory Database	Minimum Search Distance	Site Listed?	Number of Listings Identified within Searched Distances
USEPA, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	½ mile	No	1
USEPA, CERCLIS - No Further Remedial Action Planned (NFRAP)	½ mile	No	0
USEPA, Resource Conservation and Recovery Information System (RCRIS) – Corrective Action Facilities (CORRACTS)	1 mile	No	0
USEPA, RCRIS non CORRACTS Treatment, Storage, & Disposal Facilities (TSDFs)	½ mile	No	0
USEPA, Resource Conservation and Recovery Act (RCRA) – Large Quantity Generators (LQG)	¼ mile	No	0
USEPA, RCRA – Small Quantity Generators (SQG)	¼ mile	No	0
USEPA, RCRA – Conditionally Exempt SQGs (CESQG)	¼ mile	No	0
USEPA, RCRA – Non Generators (NonGen)	¼ mile	No	1
U.S. Institutional Control Control Registry (INST CONTROL)	½ mile	No	0
U.S. Engineering Control Registry (ENG CONTROL)	½ mile	No	0
USEPA, Emergency Response Notification System (ERNS)	Site	No	0
US Brownfields	½ mile	No	1
USEPA Facility Index System (FINDS)	Site	No	Not applicable
State Records			
State Hazardous Waste Sites (SHWS)	1 mile	No	1
Maine (ME) Solid Waste Facility/Landfill (SWF/LF) and ME Landfill Closure Program (LCP)	½ mile	No	0
ME Registered Underground Storage Tanks (UST)	¼ mile	No	7
ME Leaking Underground Storage Tanks (LUST)	½ mile	No	13 (1 Orphan)
ME Leaking Aboveground Storage Tanks (LAST)	½ mile	No	13 (1 Orphan)
ME Registered Aboveground Storage Tanks (AST)	¼ mile	No	0
ME Institutional Control/Engineering Control Registry (INST CONTROL)	½ mile	No	1
State Liens	Site	No	0
State ME Spills	Site	No	0 (1 Orphan)
State and Tribal Brownfields Sites	½ mile	No	0
State and Tribal Voluntary Cleanup Site (VCP)	½ mile	No	3
Drycleaners	¼ mile	No	0
Manufactured Gas Plants	1 mile	No	0

4.2.1 State and Federal Agency Database Listings

Site

The Site it not listed in any state or federal databases.

Surrounding Properties

Multiple federal and state agency database listings were identified within the ASTM-specified search distances from the Site. Based on distance, hydrogeology, nature and extent of the releases, and regulatory status, the majority of these listings are not considered likely to represent an environmental threat that could impact the Site. Relevant database listings that have a potential to adversely impact the Site are summarized and evaluated in Table 4-2 below.

Table 4-2: Nearby Property Listings Summary	
Off-Site Listing #1:	
Facility Name:	Lorraine Jonassen
Address:	859 Gray Road, Gorham, Maine (see figure 2)
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-130-2011
Approximate Location Relative to Site:	Adjacent to south and west
Hydrogeologic Setting relative to site:	Upgradient / Crossgradient
Database Review Summary:	On February 21, 2011, approximately 214-gallons of kerosene were released from a residential aboveground storage tank (AST). The filter had been broken off when snow from the roof was shoveled off onto the AST. Allstate Environmental was contracted to conduct response actions. Impacted soil (20.43-tons) was removed via vacuum truck and disposed of offsite. Groundwater was found to be impacted and recovery wells were installed with a pump and treat trailer onsite. No further information was available.
Discussion and Evaluation:	Based on the lack of documentation confirming the extent of impacts to the east and northeast towards the Site and the unknown outcome of the remedial system, the release associated with spill number P-130-2011 has the potential to environmentally impact subsurface conditions at the Site and therefore is considered a REC.
Off-Site Listing #2:	
Facility Name:	South Windham Community Church
Address:	15 Main Street, Windham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-716-1997
Approximate Location Relative to Site:	Approximately 450-feet north
Hydrogeologic Setting:	Upgradient
Database Review Summary:	On November 25, 1997, approximately 30-gallons of kerosene were released to the concrete floor from the AST in the basement of the church. The kerosene was absorbed from the concrete using an absorbent and disposed of offsite. Kerosene was not found to have migrated to the subsurface.

Table 4-2: Nearby Property Listings Summary	
Discussion and Evaluation:	Based on the lack of impacts to soil and groundwater and the limited quantity of the release, the release associated with spill number P-716-1997 is not likely to have impacted environmental conditions at the Site.
Off-Site Listing #3:	
Facility Name:	Keddy Mill
Address:	7 Depot Street, Windham, Maine
Federal Databases:	US BROWNFIELDS, CERCLIS
State Databases:	ALLSITES, SPILLS, VCP, MANIFEST
Reference IDs:	Spill Number: P-868-2005, EPA ID: MEN000106078
Approximate Location Relative to Site:	Adjacent to northeast-north
Hydrogeologic Setting relative to site:	Crossgradient / Upgradient / Downgradient
Database Review Summary:	The adjacent Keddy Mill property has been involved in the Maine Department of Environmental Protection (MEDEP) Voluntary Response Action Program (VRAP) since November 2005 and is currently under investigation by the USEPA under the Superfund Program. In 1993, a Phase I ESA prepared by Consla Geotechnical Engineering Incorporated identified the presence and possible subsurface impacts associated with a 10,000-gallon underground storage tank (UST) in the northeast portion of the disposal site. The ESA also recommended investigation of a former transformer pad and floor drains/outfalls associated with the property building. In 1997, A Phase I ESA and Phase II Subsurface Investigation performed by S. W. Cole identified two additional oil tanks along the northern edge of the property. These tanks were found to have leaked to the subsurface, impacting surrounding soil. The tanks and 11 tons of surrounding impacted soil were removed. In 2004, a Supplemental Site Investigation performed by Ransom Environmental Consultants identified PCB contamination throughout the building and in surrounding soils. Additional sampling was conducted to support a Self-Implementing PCB Cleanup Plan to USEPA. The plan was approved for the removal of the PCB impacted materials; however, a bid package for the cleanup was not prepared until November 2007 and quotes for the cleanup were not received until April 2010. No cleanup has been done to date. MEDEP was notified of the release of PCBs by apparent vandals at the property on July 5, 2005. Approximately 30 to 40-gallons of previously documented PCB containing oil was released from electrical equipment that was damaged. A subcontractor was hired to clean up the release and no further action was taken related specifically to the spill number. Additional response actions were tied into the VRAP investigation and cleanup. In 2010, additional sampling by Summit Environmental Consultants (Summit) revealed PCB impacts to soil throughout the property. Results exceeded the Toxic Substance Control Act (TSCA) threshold of 50 ppm in some locations at the property and

Table 4-2: Nearby Property Listings Summary	
	were as high as 1,100 ppm PCBs. Concentrations ranging from 1.1 parts per million (ppm) to 14 ppm were found in surface soils (0 to 2-inches) at the Keddy Mill property adjacent to the property line near the northeast corner of the Site parking lot (west of the existing mill building). Additional sampling was conducted by Summit to assess the potential for iron filings found throughout the property to be a source of PCBs. A June 25, 2011 memorandum reported investigation findings which revealed five areas of concern (AOC) associated with Keddy Mill, three of which have the potential to impact the Site: (1) metal filing area on a portion of the mill parcel north of the dam to the northeast of the Site parking lot (Summit AOC 1), (2) a slag, metal and PCB area along the western property line (northeast portion of the Site on the Transmission Line Property, Summit AOC-4) and (3) the slag and metal area at the south end of the Keddy Mill Property (which is presumed to be in a similar area to (2), Summit AOC-5). These areas are identified on Figure 2 of Appendix 1. Samples collected within this slag, metal and PCB area in the northeast portion of the Site contained PCB concentrations of 1.3 ppm to 4.6 ppm. The slag area is delineated approximately 200-feet onto the Site, though Site observations confirm the fill area extends further to the south (see delineated area on Figure 2 of Appendix 1). A Phase I ESA was prepared for the Keddy Mill in March 2011 by Summit and identified documented PCB soil impacts, slag, drums, stressed vegetation, demolition debris and soil staining observed during their site reconnaissance. In the spring of 2012, USEPA prepared a Preliminary Assessment (PA) for the Keddy Mill property under the Superfund Program, which has not yet been publically released. USEPA has prepared a Work Plan as part of the Superfund Site Investigation (SI) process for the Keddy Mill property.
Discussion and Evaluation:	Documented petroleum-related soil contamination exists in the northern and northeastern portion of the Keddy Mill Property. PCB impacts to soil are documented throughout the Keddy Mill property, specifically in proximity to Site property boundaries. In addition, PCB soil impacts related to the operation of the Keddy Mill are documented extending off the Keddy Mill property onto the northeast corner of the Site. The documented presence of contamination at the adjacent Keddy Mill property, some of which is known to have migrated onto or been placed on the Site is considered a REC.
Off-Site Listing #4:	
Facility Name:	Westbrook Transmission
Address:	13 Depot Street, Windham, ME
Federal Databases:	None
State Databases:	LUST, UST
Reference IDs:	Spill Numbers: P-296-2005 & P-696-1993, Facility ID: 18653
Approximate Location Relative to Site:	Approximately 500-feet northeast-north
Hydrogeologic Setting relative to site:	Crossgradient / Upgradient

Table 4-2: Nearby Property Listings Summary	
Database Review Summary:	On October 28, 1993, MEDEP was notified of the soil contamination observed during the removal of a gasoline UST (P-696-1993). The material released from the UST was determined to be leaded gasoline. Based on the UST registration listing, the tank was a 500-gallon bare or asphalt coated steel tank. It was installed in 1988. The impacted soil was considered "baseline" at the time and no further remedial actions were required. On April 19, 2005, MEDEP was notified of the illegal dumping of tires, petroleum products, batteries and auto fluids by a former tenant at the property (P-296-2005). A visit to the property confirmed poor housekeeping practice. A site assessment from 2004 revealed the presence of residual petroleum impacts from the former 500-gallon UST as well as impacts downgradient of a second 10,000-gallon former petroleum UST. MEDEP required the housekeeping issues to be addressed; however, due to the suspected desire of the adjacent property developer to acquire this property, the contamination associated with the USTs was left to be addressed by the developer under the VRAP program. While no direct link exists, it is assumed that the referenced developer was also a former owner/developer of the Keddy Mill property. As discussed in Off-Site Listing #3 above, MEDEP conducted assessment and remedial actions on the Keddy Mill property, which is believed to include the Westbrook Transmission property.
Discussion and Evaluation:	Based on the assessment and remedial work conducted by MEDEP at the property and distance from the Site, the potential remaining environmental impacts associated with spill numbers P-696-1993 and P-296-2005 are not likely to have impacted environmental conditions at the Site.
Off-Site Listing #5:	
Facility Name:	Real School
Address:	55 High Street, Windham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-375-2002
Approximate Location Relative to Site:	Approximately 650-feet to northeast
Hydrogeologic Setting Relative to the Site:	Upgradient
Database Review Summary:	On May 17, 2002, apparent soil staining was observed at the fill pipe for an AST. Approximately 5-gallons were presumed to have been spilled. The stained soil was cleaned using absorbent pads and no further action was required by MEDEP. No additional information is available regarding this fill pipe. Mr. David Rolfe observed a discharge pipe coming from the School into the river around 1974.
Discussion and Evaluation:	Based on the quantity of the release and distance from the Site, the release associated with spill number P-375-2002 is not expected to have impacted environmental conditions at the Site.

Table 4-2: Nearby Property Listings Summary	
Off-Site Listing #6:	
Facility Name:	Bill Eskilson (Residence)
Address:	46 High Street, Windham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-1053-2002
Approximate Location Relative to Site:	Approximately 600-feet northeast
Hydrogeologic Setting Relative to the Site:	Upgradient
Database Review Summary:	On April 3, 2002, approximately 0.12-gallons of No. 2 fuel oil dripped from a fire-matic valve. The valve was repaired and the spill was absorbed with sorbent pads. No further action was required by the MEDEP.
Discussion and Evaluation:	Based on the quantity of the release and distance from the Site, the release associated with spill number P-1053-2002 is not likely to have impacted environmental conditions at the Site.
Off-Site Listing #7:	
Facility Name:	Residence
Address:	771 Gray Road, Gorham, ME
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-1074-2008
Approximate Location Relative to Site:	Approximately 500-feet west
Hydrogeologic Setting Relative to the Site:	Crossgradient / across the Presumpscot River
Database Review Summary:	On November 26, 2008, approximately 2-gallons of No. 2 fuel oil leaked from a boiler to pooled water in a residential flooded basement. Absorbent pads were used to clean the product floating on the flood water and MEDEP required no further action.
Discussion and Evaluation:	Based on the nature of the release and cleanup performed as well as the location on the opposite side of the Presumpscot River, the release associated with spill number P-1074-2008 is not likely to have impacted environmental conditions at the Site.
Off-Site Listing #8:	
Facility Name:	U.S. Bank N.A., Trustee (Residential Building)
Address:	1 Mechanic Street, Windham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number P-1052-2010
Approximate Location Relative to Site:	Approximately 500-feet north
Hydrogeologic Setting:	Upgradient
Database Review Summary:	On December 17, 2010, approximately 20-gallons of No. 2 fuel oil were released from a 275-gallon AST in the basement of the property building. The basement of the building is a combination concrete and earth floor. The concrete was cleaned with absorbent materials and two 5-gallon buckets of impacts soil were removed from the earth floor portion. No further action was required by the MEDEP.
Discussion and Evaluation:	Based on the quantity of No. 2 fuel oil released and distance from the Site, the release associated with spill number P-1052-2010 is not likely to impact environmental conditions at the Site.

Table 4-2: Nearby Property Listings Summary	
Off-Site Listing #9:	
Facility Name:	Michael Shaghnessy (Residential Building)
Address:	32 Main Street, Windham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill number: P-728-1999
Approximate Location Relative to Site:	Approximately 1,000-feet north
Hydrogeologic Setting:	Upgradient
Database Review Summary:	On October 8, 1999, approximately 50-gallons of No. 2 fuel oil were released to an earthen basement from a leaking fuel line. The impacted soil was removed via vacuum truck and disposed of offsite. Some impacted soil remains beneath structural areas (quantity not specified). No further action was required by the MEDEP.
Discussion and Evaluation:	Based on the amount of the release and the documented cleanup activities, the release associated with spill number P-728-1999 is not likely to have impacted environmental conditions at the Site.
Off-Site Listing #10:	
Facility Name:	Williams Oil Company/ JTL Oil Company Williams Oil
Address:	26 Mosher Road Route 237, Gorham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill number: P-220-1997 & P-367-2007
Approximate Location Relative to Site:	Approximately 500-feet southwest
Hydrogeologic Setting Relative to the Site:	Across the Presumpscot River
Database Review Summary:	On April 28, 1997, MEDEP was notified of the release of an unknown quantity of kerosene from an AST. No cleanup was conducted and no further action was taken by MEDEP. On May 21, 2007, MEDEP visited the property for the EPA to determine compliance and housekeeping practices for the facility prior to use under an EPA remediation contract. Conditions were noted generally good; however, based on the quantity of oil storage observed the primary responder informed the owner that an Spill Prevention, Control and Countermeasure (SPCC) plan should be implemented at the property.
Discussion and Evaluation:	Based on lack of any significant reported releases and location of the property on the opposite side of the river, the spill numbers P-220-1997 and P-367-2007 are not likely to have impacted environmental conditions at the Site.
Off-Site Listing #11:	
Facility Name:	Route 202 Rotary
Address:	688 Gray Road, 202 Circle, Gorham, Maine
Federal Databases:	None
State Databases:	LUST
Reference IDs:	Spill numbers: P-566-2007
Approximate Location Relative to Site:	Approximately 830-feet southwest
Hydrogeologic Setting Relative to the Site:	Across the Presumpscot River

Table 4-2: Nearby Property Listings Summary	
Database Review Summary:	On July 30, 2007, petroleum impacted soil was found during utility excavation at the rotary. The petroleum was determined to have migrated from the adjacent Gulf Gas Station which had reported releases in the past. Although known petroleum contamination was observed at the rotary, potential for contact with the soil was considered minimal and no further action was taken by MEDEP associated with this spill number.
Discussion and Evaluation:	Based on the hydrologic location on the opposite of the Presumpscot River and distance from the Site, the release associated with P-566-2007 is not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #12:
Facility Name:	Little Falls Mobile (Kimball's Mobil) / Petro King / Williams Oil Company/ JTL Oil Company Williams Oil
Address:	20 Mosher Road, Gorham, Maine
Federal Databases:	None
State Databases:	LUST, LAST, UST
Reference IDs:	Spill Numbers: P-428-1989, P-34-1997, P-205-1999, P-584-2003, P-278-2005 & P-916-2007; Facility ID 6401
Approximate Location Relative to Site:	Approximately 800-feet southwest
Hydrogeologic Setting Relative to the Site:	Across Presumpscot River
Database Review Summary:	Eight USTs are registered for the property. None of the tanks are currently active; four have been removed and four are listed out of service. The USTs reportedly contained unleaded diesel, gasoline, regular gasoline, premium unleaded gasoline and waste oil. On September 1, 1989, a release of an unknown quantity of gasoline occurred (P-428-1989). Based on the age of the release the spill report does not contain additional details with the exception of the use of a mobile oil/water separator to treat groundwater. The P-205-1999 spill report indicates that USTs were replaced associated with this spill number and that no "severe" contamination was observed. On January 16, 1997 (P-34-1997), a release of 100-gallons of No. 2 Fuel oil from an AST was reported. The oil traveled across the driveway, into Route 237 down a storm drain and ultimately into the Presumpscot River. The release was contained by the Gorham Fire Department with absorbent pads and sand. It was concluded that less than one gallon of oil had reached the river and the rest had been absorbed by the pads or the asphalt over a widespread area. No further action was taken by the MEDEP at the time based on the minimal impacts to soil. On March 24, 1999, MEDEP was notified of the presence of product in the property's monitoring well (P-205-1999). A nearby diesel tank was presumed to be the source. The tank was excavated to observe subsurface conditions. Soil between the monitoring well and UST did not appear to be impacted. A sheen was documented on groundwater in multiple locations. Additional information was not available to TRC for review.

Table 4-2: Nearby Property Listings Summary	
	On July 13, 2003, MEDEP was notified of a sheen observe during oil system updates (P-584-2003). All equipment was determined to be working properly and no leaks were detected by the leak detection system. The sheen was determined to be residual from former leaks and to be minor in nature. No response actions were conducted. On March 30, 2005, MEDEP was notified of a malfunction with the oil system that triggered an alarm (P-278-2005). Water was leaking unto the tank from a spill bucket during heavy rain. The malfunction was repaired and no further action was requested by MEDEP. On December 27, 2007, a release of approximately 15-gallons of unleaded gasoline was spilled during overfilling of a USTs (P-916-2007). The release stained nearby snow and ice. The snow and ice was removed and melted in a drum, which was then disposed of offsite. No further action was taken by the MEDEP.
Discussion and Evaluation:	Although limited information is available for the first spill, based on the hydrogeologic location of the property on the opposite side of the river from the Site; the releases associated with spill numbers P-428-1989, P-34-1997, P-205-1999, P-584-2003, P-278-2005 & P-916-2007 are not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #13:
Facility Name:	Little Falls Minimart / Lampron Lil Mart / Little Falls Minimart Gulf
Address:	688 Gray Road, Gorham, Maine
Federal Databases:	None
State Databases:	ALLSITES, VCP, LUST, UST
Reference IDs:	REM01039, Spill numbers : P-403-1989, P-257-1991, P-560-1993, P-697-2001, P-1015-2002 & P-381-2004, Facility ID: 13451
Approximate Location Relative to Site:	Approximately 900-feet southwest
Hydrogeologic Setting Relative to the Site:	Across the Presumpscot River
Database Review Summary:	Ten (10) USTs have been registered for this property. One 6,000-gallon regular gasoline tank constructed of bare steel has been abandoned in place. Five USTs; two 6,000-gallon, bare steel unleaded and premium USTs, one 7,000-gallon double wall cathodically protected (CP) steel unleaded gasoline UST, one 10,000-gallon premium double wall CP steel and one 2,000-gallon unleaded plus double wall CP steel UST; have been removed from the property. Four USTs are currently active; two 15,000-gallon unleaded gasoline double wall jacketed USTs, and two 8,000-gallon double wall jacketed UST containing premium gasoline and kerosene. On July 12, 1989, a release of approximately 10-gallons of gasoline occurred (P-403-1989). Soil and groundwater was determined to be impacted but no further action was conducted by MEDEP. On April 24, 1991, the UST system at the property was replaced (P-257-1991). "Remediation through reduction" was reportedly

Table 4-2: Nearby Property Listings Summary	
	used to address soil and groundwater impacts encountered during the removal. Approximately 15-cubic yards of soil were excavated and land spread offsite. Additional details may be available in a narrative; however this was not available to TRC for review. On September 8, 1993, approximately 4-gallons of unleaded gasoline were released at a pump (P-560-1003). Sorbent pads were used to clean up the spill and no further action was conducted. On August 29, 2001, MEDEP inspected planned upgrades for the facility (P-697-2001). The owner indicated that upgrades had begun but were temporarily on hold. The spill report indicated that additional information for the prior two spill numbers should be available in the UST file # 13451. On July 22, 2002, approximately 5-gallons of unleaded gasoline were leaked to the interstitial space within the UST (P-1015-2002). Surrounding soil was not impacted. The tank was taken out of service. No further action was taken. On May 3, 2004, the UST system at the property was entirely replaced (P-381-2004). Observations of surrounding soil in the tank excavation revealed the presence of minor petroleum impacts presumed to be from historic releases. Photoionization Detector (PID) responses were all generally below 100-ppm; however, approximately 600-tons of visually impacted soil was transported offsite for disposal. The four currently active USTs were installed in place of the removed tanks.
Discussion and Evaluation:	Based on the distance from the Site and the location on the opposite side of the river, the released associated with spill numbers P-403-1989, P-257-1991, P-560-1993, P-697-2001, P-1015-2002 and P-381-2004 are not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #14:
Facility Name:	Cumberland County Emergency Management Bunker / Bomb Shelter (Orphan Listing)
Address:	22 High Street, Windham, Maine
Federal Databases:	None
State Databases:	LUST, LAST
Reference IDs:	Spill Number: P-718-1994
Approximate Location Relative to Site:	Approximately 500-feet east
Hydrogeologic Setting Relative to the Site:	Upgradient
Database Review Summary:	On November 16, 1994, a release of unleaded gasoline from a UST occurred. The quantity was not reported. Two water supply wells were determined to be impacted and one was presumed to be at risk by the MEDEP Primary Responder. Two USTs, one gasoline and one fuel oil, were removed from the property which appeared to be intact with no evidence of release as observed by the consulting firm J.B. Plunkett Associates. No further action by the MEDEP Division of Response Services was deemed necessary according to the spill report. No additional details were available for review by TRC.

Table 4-2: Nearby Property Listings Summary	
	Additionally, one orphan listing was identified to possibly be associated with this property. The listing was identified in the LAST database. No additional information is available from the orphan listing.
Discussion and Evaluation:	Based on the fact that the tanks have been removed and there was no evidence of contamination during UST removal, the release associated with spill number P-718-1994 is not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #15:
Facility Name:	L.C. Andrews Lumber Mill / Maine Cedar Log Homes
Address:	35 Main Street, Windham, Maine
Federal Databases:	None
State Databases:	ALLSITES, INST Control, VCP, UST, MANIFEST
Reference IDs:	Spill number: P-433-2007
Approximate Location Relative to Site:	Approximately 1,000-feet north
Hydrogeologic Setting:	Upgradient
Database Review Summary:	On June 15, 2007, MEDEP was notified of the need to remove documented petroleum impacted soil at the property due to planed new development. (No further Action was granted in the properties' 2003 VRAP certification. However, due to the change in the property's usage the No Further Action determination was no longer valid and additional excavation was required.) Approximately 1,000-cubic yards of impacted soil was excavated and disposed of offsite. No further information is available.
Discussion and Evaluation:	Based on the distance from the Site and documented cleanup activities, the release associated with spill number P-433-2007 is not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #16:
Facility Name:	Lee Michaud (Residence)
Address:	751 Gray Road, Gorham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill number P-22-2008
Approximate Location Relative to Site:	Approximately 500-feet west
Hydrogeologic Setting Relative to the Site:	Crossgradient / across the Presumpscot River
Database Review Summary:	On January 8, 2008, a release of approximately 1-quart of No. 2 Fuel oil had been released to the concrete basement by overfilling a residential AST. An absorbent was used to absorb the spilled oil and was disposed of offsite. No further action was taken by the MEDEP.
Discussion and Evaluation:	Based on the lack of impacts to soil and the quantity of the spill, the release associated with spill number P-22-2008 is not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #17:
Facility Name:	Cumberland County Civil
Address:	85 High Street, Windham, Maine
Federal Databases:	None
State Databases:	UST
Reference IDs:	Facility ID: 24
Approximate Location Relative to Site:	Approximately 900-feet northeast

Table 4-2: Nearby Property Listings Summary	
Hydrogeologic Setting Relative to the Site:	Upgradient
Database Review Summary:	Two USTs are registered at this location. One 2,000-gallon gasoline UST and one 1,000-gallon No. 2 Fuel Oil UST. Both USTs have been removed
Discussion and Evaluation:	Based on the lack of reported releases from these USTs, they are not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #18:
Facility Name:	Louise Siciliano (Residence)
Address:	720 Gray Road, Gorham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill number: P-187-2002
Approximate Location Relative to Site:	Approximately 800-feet west
Hydrogeologic Setting Relative to the Site:	Crossgradient / Across Presumpscot River
Database Review Summary:	On March 13, 2002, MEDEP was notified of the use of a leaking 55-gallon drum of No. 2 fuel oil for a fuel supply for heating purposes. Approximately 20-gallons of oil reportedly leaked. Absorbent pads were used to clean up the oil and no further action was taken by MEDEP.
	Off-Site Listing #19:
Facility Name:	Depot Energy
Address:	29 Depot Street, Windham, Maine
Federal Databases:	None
State Databases:	UST
Reference IDs:	Facility ID: 8058
Approximate Location Relative to Site:	Approximately 1,000-feet northeast
Hydrogeologic Setting Relative to the Site:	Upgradient / Crossgradient
Database Review Summary:	Two USTs are registered for this property. One 550-gallon gasoline UST and one 3,000-gallon UST containing an unknown material. Both tanks were bare steel and since been removed.
Discussion and Evaluation:	Based on the lack of reported releases, the USTs at this property are not likely to have impacted environmental conditions at the Site.
	Off-Site Listing #20 :
Facility Name:	Pieter Van Eekelen (Residence)
Address:	14 Pleasant Street, Gorham, Maine
Federal Databases:	None
State Databases:	LAST
Reference IDs:	Spill Number: P-779-2004
Approximate Location Relative to Site:	Approximately 1,000-feet west
Hydrogeologic Setting Relative to the Site:	Across the Presumpscot River
Database Review Summary:	On September 11, 2004, a release of 200-gallons of No. 2 fuel oil was released to the dirt floor of a basement. The fuel line detached from the boiler and all the contents of the tank were spilled. Impacted soil was removed via vacuum truck. Impacted groundwater was pumped from the basement; however due to continued impacts a groundwater recovery system was use to recover the remaining oil and a ventilation system was installed. No further action was conducted by MEDEP.

Table 4-2: Nearby Property Listings Summary	
Discussion and Evaluation:	Based on the distance from the Site and location on the opposite side of the river, the release associated with spill number P-779-2004 is not likely to have impacted environmental conditions at the Site.

4.2.2 Physical Setting Well Search

Four wells are located within ¼-mile of the Site, one of which is a public water supply well (PWS). The PWS was identified to the northeast of Site, approximately 750-feet north of Depot Street (presumed to be hydrogeologically up-gradient). The owner is identified as the Northeastern Motel with public water supply (PWS) identification number ME0004228. This water supply well is listed as active, serving 46 people and includes a distribution system, treatment system using post-hypochlorination and ion exchange and a 15-foot dug well. The well is monitored routinely for coliform, nitrate, and nitrite. The three additional wells identified in the well search are USGS wells.

4.3 MEDEP Online Searchable Databases

TRC performed a review of several of MEDEP's online databases on May 7, 2012 to investigate Site and nearby environmental conditions. A copy of the interactive map of all nearby database listings has been included in Appendix 8.

Hazardous Oil Systems Site

TRC reviewed the *MEDEP Hazardous Oil System Sites (HOSS)* Interactive Map and found 17 spill numbers within 1/4-mile of the Site. Combined with those additional spill numbers identified in the EDR report, a total of 31 spill numbers are identified within ¼ mile of the Site. Most of the spill numbers were associated with small releases of petroleum or were in a downgradient or crossgradient hydrogeological location. All but one of the relevant spill numbers are described above in Table 4-2. One additional spill number was identified in the HOSS database and is described below.

P-204-2010 – Teddy Bear Daycare, 8 Newell Street, Gorham, Maine

On March 11, 2010, a release of an unknown quantity of sulfuric acid was reported to MEDEP by the Gorham Fire Department subsequent to a fire at the day care facility. The facility is located approximately 900-feet west of the southern end of the Site. Upon MEDEP inspection of the property, car batteries, 55-gallon drums, an old 275-gallon AST and burned vehicles were noted. No staining was observed though fire damage hindered an adequate inspection as most product was likely consumed in the fire. MEDEP requested the owner properly dispose of the batteries and no further action was taken.

Based on the distance from the Site and MEDEP reported conditions after the fire, the release associated with spill number P-204-2010 is not likely to have impacted environmental conditions at the Site.

Copies of all Spill Reports for the listed spill numbers and a complete list of spill numbers for the Town of Windham and Gorham has been included in Appendix 8.

Remediation Sites (Institutional Controls)

TRC reviewed the *MEDEP Remediation Sites (Institutional Controls)* Interactive Map and found two remediation sites within ¼-mile of the Site. Limited information was available for these disposal sites. Available information has been summarized below.

REM01538 – Keddy Mill

The property participated in the VRAP program and remediation was determined to be needed for this site. See Offsite Listing #3 above for additional details.

REM01216 – L.C. Andrews Lumber Mill

The property participated in the VRAP program and No Further Action was determined to be necessary. See Offsite Listing #15 above for additional information.

Registered Petroleum Tanks

TRC reviewed the *MEDEP Registered Petroleum Tanks Database* Interactive Map and found 2 USTs within ¼-mile of the Site. These USTs are registered at the Lampron Mini-mart (Registration # 13451). See Table 4-2 Offsite Listing #13 for more information.

Solid Waste – Closed Municipal Landfills

TRC reviewed the *MEDEP Solid Waste – Closed Municipal Landfills* Interactive Map and found no landfills within 1 mile of the Site.

Registered UST List

TRC reviewed the list of *Maine Registered USTs for Windham and Gorham* and found 19 removed, 4 active, 1 abandoned in place and 4 planned for removal USTs at or within ¼-mile of the Site. The USTs are registered with the Cumberland County Civil, Lampron Lil Mart, Petro King, Rich Tool and Die Company, Depot Energy, Inc. or L.C. Andrews, Inc.

A copy of the list of USTs registered in Windham and Gorham has been included in Appendix 8.

Active and Out of Service Underground Oil Storage Tanks Including Tanks That Have Not Been Properly Abandoned List

TRC reviewed the list of Maine *Active and Out of Service USTs, Including Tanks That Have Not Been Properly Abandoned List* for Gorham and Windham and found listings consistent with the Registered tanks List; 4 active tanks and 4 tanks planned for removal exists within ¼-mile of the Site.

A copy of the list of Active and Out of Service USTs in Windham and Gorham has been included in Appendix 8.

4.3.1 Local Environmental Record Sources

As part of this assessment, TRC conducted local municipal research at Windham Town Hall to obtain available historical or environmentally-pertinent information pertaining to the Site. A summary of TRC's findings is discussed below.

Windham Fire and Rescue

TRC contacted the Windham Fire and Rescue for information regarding the presence of former and current storage tanks, hazardous material storage and reported incidents at the Site and surrounding areas. TRC spoke with Fire Chief Charlie Hammond and he indicated that he has no record or recollection of any environmental issues at the Site. The only issues were "a couple minor electrical fires", but he did not indicate if they were related to the transformers. No additional information was available.

Town of Windham Assessors' and Code Enforcement Department

TRC contacted the Town of Windham Assessors' and Code Enforcement Department for any available files regarding any historical or environmentally pertinent information associated with the Site. One of the office assistants provided the file for the property. No additional information than was already obtained via online database systems was available in the file.

Town of Gorham Assessor's and Zoning Offices

TRC researched the Gorham Parcel online through the town website and obtained a copy of the assessor's card, tax map, and interactive map printout showing the parcel (since it was not plotted on the applicable tax map) and the Town of Gorham Zoning Map.

Portland Water District

TRC contacted the Portland Water District (PWD) for information on their service to the area surrounding the Site. Public water supply was available to most of the surrounding area with the exception of the eastern end of Depot Road before River Road and some side streets off of High Street.

Additionally, TRC prepared a Well Search for the Client as part of a separate scope of work using the information obtained from the PWD. Thirty two potential private water supply wells were identified within 2,500-feet of the Site during this search, with the closest wells located on Paul Drive and Van Tassel Drive approximately 180-feet east of the site.

4.4 Historical Use Information on the Site and on Adjoining Properties

During the course of this assessment, available historical information identifying past uses of the Site and surrounding areas was obtained from various data sources. The following sections summarize TRC's interpretations of obtained historical information from these sources.

4.4.1 Historical Aerial Photographs

Historical aerial photographs are used to interpret and evaluate changes in land use and visible areas of potential environmental concern at the Site and surrounding areas. Historical aerial photographs from the years 1956, 1970, 1975, 1986, 1991, 1998, 2003, 2006, 2007, 2010 and 2011 were obtained from EDR and Google Earth which were reviewed as part of this assessment.

It should be noted that the scale and resolution of the 1956 through the 1991 aerial maps limits observational opportunities of the Site and surrounding areas due to the small size of the target of interest; however, the Site appear generally unchanged since 1956. An industrial-sized structure is depicted to the north of the Site in the current location of the Keddy Mill on each of the aerial photographs reviewed.

Portions of the adjacent building were removed between 1991 and 2003. An apartment complex was constructed between 2003 and 2007 adjacent to the Site to the north-northwest.

Photocopies of available aerial photographs are included in Appendix 6. A summary of observation for each aerials photograph has been provided in the following Table 4-3.

Table 4-3: Summary of Observations from Aerial Photography Review

Year	Site Use	Adjacent Property Use
1956	The land in the northwest portion of the Site appears vacant and the dam is apparent in its current position. The buildings depicted onsite on the 1944 Sanborn map appear to have been removed by the time of the photograph. The eastern portion of the Site is depicted as vacant. The northernmost portion of the Site does not appear to contain trees while the southern portion appears wooded.	A mill building is depicted to the northeast-north of the Site and borders the eastern and northeast corner of the parking lot portion of the Site. Residential and commercial size structures appear to occupy the remaining surrounding area.
1970	Site conditions appear generally similar to those in 1956 photograph.	Surrounding conditions appear similar to those in the 1956 photograph with a few more residential properties in the area.
1975	Site conditions appear generally similar to those in 1970 photograph.	Surrounding conditions appear similar to those in the 1970 photograph.
1986	Site conditions appear generally similar to those in 1975 photograph. Vegetation appears to be spreading to the north in the eastern portion of the Site covering the whole northeast corner of the Site.	Surrounding conditions appear similar to those in the 1975 photograph.
1991	Site conditions appear generally similar to those in 1986 photograph. Wooded vegetation extends over the whole northeast corner of the Site up to the mill by this time.	Surrounding conditions appear similar to those in the 1986 photograph.
1998	Site conditions appear generally similar to those in 1991 photograph.	A portion of the adjacent building on the Keddy Mill property near the northeast corner of the Site has been demolished. Rubble is apparent in the photograph. Remaining surrounding conditions appear similar to those in the 1991 photograph.
2003	Site conditions appear generally similar to those in 1998 photograph. Two trailers are located near Main Street at the entrance to the Site.	Another portion of the adjacent building on the Keddy Mill property near the northeast corner of the Site has been demolished. Rubble is apparent in this area. A few cars or trucks appear to occupy the area north of the adjacent building on the Keddy Mill property.
2006	Site conditions appear generally similar to those in the 2003 photograph.	The rubble and cars observed to the northeast of the Site in the 2003 photograph have been removed. An apartment complex building appears in construction to the north of the parking lot portion of the Site. Work trailers and equipment are apparent surrounding the apartment complex building.

Table 4-3: Summary of Observations from Aerial Photography Review		
Year	**Site Use**	**Adjacent Property Use**
2007	Site conditions appear similar to those in the 2006 photograph.	Surrounding conditions appear similar to those in the 2006 photograph. The apartment complex is now complete and a resident parking lot and landscaping can be seen.
2010	Site conditions appear similar to those in the 2007 photograph.	Surrounding conditions appear similar to those in the 2007 photograph.
2011	Site conditions appear similar to those in the 2010 photograph.	Surrounding conditions appear similar to those in the 2010 photograph.

4.4.2 Sanborn Fire Insurance Maps

TRC reviewed the Sanborn Fire Insurance Maps (Sanborn Maps) for the Town of Gorham and South Windham provided by EDR. Sanborn Maps were initially produced for assessing fire insurance liability in urban areas in the United States. The maps provide detailed information of interest to the insurance industry (i.e., building construction, facility occupants, storage tank locations, and hazardous material storage areas), which can be used as a resource to document land use and structural change over time. Sanborn Maps for the years 1909, 1922, 1934 and 1944 were reviewed to evaluate changes in land use and areas of potential environmental concern visible at the Site and surrounding areas.

Based on a review of Sanborn Maps, the northwest portion of the Site was historically developed since at least 1909. It was occupied by a portion of the Androscoggin Pulp Company, and then the Cumberland Securities Company, through at least 1944. The eastern portion of the Site has remained vacant since at least 1922. The surrounding area has been occupied by the remainder of the pulp mill as well as associated out buildings, pulp and log piles and various commercial and residential developments. No storage tanks were depicted on the Site, although two large capacity fuel oil storage tanks are depicted north-northeast of the Site beginning in 1922 (and are depicted through 1944). These tanks are assumed to be associated with the historical Keddy Mill's operation. There are no known releases associated with these fuel oil storage tanks.

Photocopies of available Sanborn Maps are included in Appendix 6. The following Table 4-4 summarizes interpretations made based on a review of the above-referenced Sanborn Maps.

Table 4-4: Summary of Observations from Sanborn® Map Review		
Year	**Site Use**	**Adjacent Property Use**
1909	The Site is depicted as being occupied by a portion of the Androscoggin Pulp Company (APC), manufacturers of ground wood pulp and box board. The driveway portion of the Site is occupied by a single story storehouse to the east and the two story main building to the west which contains two machine rooms, an elevator and a Fales & Jenns Fire Pump. The portion of the Site over the river is occupied by a 2 story portion of the APC which contains the wood grinders and beater engines. The dam is depicted across the river with a single story gate house located where the present day	The surrounding properties are depicted as being occupied by the remainder of the APC and other associated out buildings. A storehouse, coal shed and the boiler room containing eight boilers is located to the northeast of the parking lot. The beater building and engine room are located directly to the east of the Site parking lot with the machine shop with concrete floor depicted beyond those. Fifteen foot high pulp piles are depicted near Main Street north of the parking area and a pair of railroad spurs run to the Site parking lot from the northeast. A 16,000-gallon

Table 4-4: Summary of Observations from Sanborn® Map Review		
Year	**Site Use**	**Adjacent Property Use**
	sluicegates are. The eastern portion of the Site is not depicted on the 1909 map.	water tank is depicted just north of the parking lot portion of the Site. A small storage shed, machine shop and pipe shop are also depicted to the north of the Site beyond the railroad spur. A 10-foot high pulp pile is depicted near the northeast corner of the Site.
1922	Site conditions are depicted as generally similar to those on the 1909 map. The eastern portion of the Site is depicted as vacant.	Surrounding conditions are depicted as generally similar to the 1909 map with the exception of a second large single story storehouse attached to the north side of the APC building, north of the Site and an addition on the eastern edge of the APC building, north-northeast of the Site. Two fuel oil tanks, one 150,000 and one 250,000-gallon, are located to the northeast of the Site along Depot Street. These tanks are assumed to be associated with the historical Keddy Mill's operation. Residential and commercial buildings have been added to the north of the Site on the corner of Main Street and Depot Street. A residential building is depicted off the southern end of the eastern portion of the Site.
1934	Site conditions are similar to those depicted on the 1922 map.	Directly surrounding conditions are depicted as similar to those in the 1922 map. The boilers are no longer depicted in the boiler room. The two fuel oil tanks, one 150,000 and one 250,000-gallon tanks continue to be depicted to the northeast of the Site along Depot Street.
1944	Site conditions are depicted as similar to those on the 1934 map. The mill, including the portion on the Site, is depicted as being jointly occupied by J. W Lewis, Specialty Converts Incorporated, and Cumberland Securities Company.	Surrounding conditions are depicted as similar to those in the 1934 map. The L.C. Andrews Lumber Mill is now depicted across Depot Street to the northeast. The two fuel oil tanks, one 150,000 and one 250,000-gallon tanks continue to be depicted to the northeast of the Site along Depot Street.

4.4.3 Historical Topographic Maps

Historical topographic maps were reviewed for the years 1891, 1916 and 1957. The Site is depicted as vacant in 1891 with only the nearby railroad line to the east. The Site is first depicted as occupied on the 1916 map and then is depicted as generally vacant again with the exception of the dam on the 1957 map; although, this vacant depiction is assumed to be an error based on the known continuous presence of the mill at the Site and surrounding properties through present time. The following Table 4-5 summarizes interpretations made based on a review of the above-referenced Historical Topographic Maps. Copies of the historical topographic maps have been included in Appendix 6.

Table 4-5: Summary of Observations from Historical Topographic Map Review	
Year	**Site & Surrounding Area Description**
1891	The Site and surrounding area are depicted as vacant. Possible development is depicted just north of the Site along Depot Street, the block to the northwest of the Site and to the west. The railroad line is depicted to the east trending in a northwest to southeast direction. The Presumpscot River appears to have a much less significant bend at the Site than is depicted on future maps and that is currently present at the Site.
1916	The Site is depicted as being occupied by a mill and dam structure. Specific details cannot be assessed based on the large map scale. Several residential structures have been constructed to the east. Remaining surrounding conditions are depicted as similar to those on the 1891 map.
1957	The Site does not appear to be occupied by the mill. The dam is depicted crossing the river.

4.4.4 Recorded Land Title Records

TRC obtained a copy of the Site's deed from the Client and reviewed the same in the Cumberland County Registry of Deeds (Page 25 in Book 3612). The Site was acquired by Scott Paper Company in October 1974. Scott Paper Company transferred the Site ownership to S. D. Warren Company by quitclaim deed in 1986. A description of the land conveyed to Scott Paper Company, and subsequently S.D. Warren, can be found within the deed.

It should be noted that the river bottom and water rights in the adjacent Presumpscot River were conveyed to the grantee; however, the deed reserves the right of Lawrence J. Keddy to discharge *"any additional waters obtained from public water supply used for cooling and processing purposes into the Presumpscot River in accordance with applicable Local, State and Federal Standards, and to maintain repair and replace the existing closed circuit cooling pipe extending from said adjacent premises into the bed of the Presumpscot River."* This statement indicates that the adjacent property owner has the right to discharge to the river bottom owned by Sappi, and the river itself.

Tom Howard (Sappi) has no knowledge whether such pipe or discharge exists or ever existed, or whether it was ever used by Keddy Mill operations, either before or after the date of the transfer of the Site to Scott Paper Company. None of the other employees questioned had knowledge of the pipe or discharge.

Additional historical ownership could be traced back to 1900 through the Cumberland County Registry of Deeds. The parcels were originally part of a much larger parcel which was subdivided to the current property boundaries in 1945. Historical ownership, including all subdivides, has been summarized in Table 4-6 below.

Table 4-6: Property Tax Files Ownership Summary (reverse chronology)				
Date	**Grantor**	**Grantee**	**Type of Document**	**Document No.**
7/24/1986	Scott Paper Company	S.D. Warren	Quitclaim Deed	7313/132
10/18/1974	Mallison Corporation	Scott Paper Company	Deed (Transmission Line)	3612/30

Table 4-6: Property Tax Files Ownership Summary (reverse chronology)

Date	Grantor	Grantee	Type of Document	Document No.
10/18/1974	Scott Paper Company	Not Applicable (Not an ownership document or ownership change)	Plan	Plan Book 102, Page 34
10/16/1974	Lawrence J. Keddy	Scott Paper Company	Deed (Dam)	3612/25
10/30/1961	Atlantic Mills Incorporated	Lawrence J. Keddy	Deed (Dam)	2641/44
6/6/1961	Atlantic Mills Incorporated*	Keddy Manufacturing Company	Deed (Keddy Mill)	2611/192
5/25/1955	Cumberland Securities Corporation	Mallison Corporation	Deed (Transmission Line)	2232/46
8/19/1954	Irving Fox*	Atlantic Mills Incorporated	Deed (Keddy Mill)	2192/14
1/29/1954	Cumberland Securities Corporation	Atlantic Mills Incorporated	Deed (Dam)	2167/245
12/28/1953	Fred Weidland, Albert J Butchkes, Joseph H Hoodin & Jerome K Jelin*	Irving Fox	Marital Release (Keddy Mill)	2181/34
12/10/1953	Fred Weidland, Albert J Butchkes, Joseph H Hoodin & Jerome K Jelin*	Irving Fox	Deed (Keddy Mill)	2167/454
8/28/1953	Maine Steel, Inc.*	Fred Weidland, Albert J Butchkes, Joseph H Hoodin & Jerome K Jelin	Deed (Keddy Mill)	2146/461
12/13/1945	Windham Fibres*	Maine Steel, Inc.	Deed (Keddy Mill)	1800/492
7/25/1945	Cumberland Securities Corporation*	Windham Fibres	Deed (Keddy Mill)	1787/353
10/6/1944	Cumberland Securities Corporation	Central Maine Power	Right of Way	1759/348
4/29/1941	Cumberland Securities oration	Julia L. Siciliano	Sewer Easement	1637/119
3/7/1940	Robert Gair Company	Cumberland Securities Corp.	Deed	1601/95
7/30/1936	Androscoggin Pulp Company	Robert Gair Company	Deed	1503/241
7/25/1913	E. I. DuPont De Nemours	Androscoggin Pulp Company	Height of Dam Agreement	925/176
9/8/1919	William Bickford	Androscoggin Pulp Company	Deed	1031/260
5/1/1917	Fiske, Cornelia & WilliamWarren	Androscoggin Pulp Company	Deed	989/409
3/29/1917	Cora E. Libby	Androscoggin Pulp Company	Deed	988/189

Table 4-6: Property Tax Files Ownership Summary (reverse chronology)				
Date	**Grantor**	**Grantee**	**Type of Document**	**Document No.**
4/14/1900	Sebago Wood Board	Androscoggin Pulp Company	Deed	687/283

Notes:
*- Indicates adjacent Keddy Mill property (first split off from larger parcel that included Little Falls Hydro Property in 1945, and subsequent conveyances of Keddy Mill property).

4.4.5 Prior Reports

Site Reports

TRC performed a file review with the Sappi Engineering Department in search of additional environmental reports for the Site. No prior reports were found; however other relevant documents obtained during this file review have been incorporated into appropriate sections of this report and are listed in Section 11 (References).

An Industrial Hygiene Monitoring Report was prepared by Northeast Test Consultants (NTC) and dated June 20, 2012. Air samples were collected and analyzed for total dust, cobalt, lead and PCBs and were compared to the Occupational Safety and Health Administration *Limits for Air Contaminants* standards. None of the analyzed constituents were detected in the air samples. A copy of the report has been included in Appendix 7.

Off-Site Reports

Sappi provided a collection of prior environmental reports for the adjacent Keddy Mill Property at 7 Depot Street. These reports are summarized in Section 4.2.1 in Table 4-2, Offsite Listing #3.

In the most recent Phase I ESA for the Keddy Mill Property prepared by Summit Environmental Consulting (Summit), dated March 17, 2011, RECs were identified; however, none were associated with the Site that is the subject of this Phase I ESA. This 2011 ESA did identify PCB concentrations exceeding the TSCA threshold of 50 ppm in soil in some locations on the Keddy Mill Property and petroleum impacted areas of soil to the northeast of the property.

Two prior soil investigation reports prepared by Summit were reviewed which indicated that PCB impacts extend off the Keddy Mill property and onto the Site in an area identified as the “slag area” in the northeast portion of the Transmission Line Property. At one sample location (G5.1.3), a concentration of 2.8 ppm of PCBs was detected in the surficial soil samples collected from the slag area in the northeast portion of the Site on the Transmission Line Property. Concentrations of 1.1 to 14 ppm were detected in surficial soil samples collected on the Keddy Mill property adjacent to the property line near the northeast corner of the Site parking lot.

A July 25, 2011 memorandum from Summit to MEDEP disclosed five areas of concern associated with Keddy Mill, three of which have the potential to impact the Site: : (1) metal filing area on a portion of the mill parcel north of the dam to the northeast of the Site parking lot (Summit AOC 1), (2) a slag, metal and PCB area along the western property line (northeast portion of the Site on the Transmission Line Property, Summit AOC-4) and (3) the slag and metal area at the south end of the Keddy Mill Property (which is presumed to be in a similar area to (2), Summit AOC-5). These areas are identified on Figure 2 of Appendix 1.

Due to the proximity of the Keddy Mill property to the Site, it is likely that impacts (PCBs, slag, debris, etc.) migrated across the current property line through natural (wind, stormwater runoff, etc.) and/or manmade (mill operations, dumping, regrading, etc.) pathways. Based on the documented impacts on the Site and documented impacts throughout the Keddy Mill property in proximity to the current property line; the environmental impacts associated with the Keddy Mill are considered a REC.

A copy of prior reports obtained during this Phase I ESA process have been included in Appendix 7.

4.4.6 Other Historical Sources

TRC performed a file review of the Sappi Engineering Department file room in search of useful historical information, engineering plans, or prior environmental due diligence performed for the Site. Numerous documents and plans were reviewed and copied as part of this Phase I ESA process. Environmentally pertinent information was available for review and summarized below.

Transformer History

TRC reviewed the Purchase and Sale Agreement for the Site (as well as two other hydro sites conveyed at the same time) that included a list of transferred land, buildings; dams and associated structures; and machinery and electrical equipment. The agreement included all the features at the Site and listed three 333 KVA transformers.

TRC reviewed historical Site and floor plans. The Sappi Little Falls Project Powerhouse Floor Plan dated August 15, 1979 depicts the three transformers positioned in the location of the current transformer on the eastern side of the Powerhouse. The updated plan dated December 9, 1997 still depicts the three transformers in this location. Bill Foley (former Sappi employee) indicated in an interview (see Section 6.5) that these transformers contained PCBs at the request of the insurance company to prevent fires, but that the transformers were replaced in the recent past.

A purchase requisition, electronic mail (e-mail) correspondence from August 1999, and a transformer data report dated 1998 were reviewed. The report was for the sampling of the current transformer's oil contents (Transformer 87), indicating that the original three transformers were replaced with the single step-up unit at an unknown point in time. In 1998, the manufacture date of the transformer was stated to be 1976. Based on the e-mail correspondence, it is inferred that the oil in the unit was originally PCB-containing oil, but was changed out to non-PCB mineral oil. A sample from January 1981 indicated a concentration of 44 ppm; however, it is not indicated whether this was prior to the change to mineral oil or if it was the original PCB-containing oil. The new non-PCB oil was tested and contained 11 ppm PCBs in 1998. Another sample in 1999 indicated an increased concentration to 51 ppm PCBs; the increase was presumed by Barry Stemm, applicable author of part of the e-mail chain, to be from the leaching of PCBs from permeable interior transformer parts to the non-PCB containing oil. Based on the detected concentrations, Barry Stemm and Raymond Pepin (second applicable author in the e-mail chain) indicated in the e-mail correspondence that the transformers should be retrofitted or moved to a location away from the river. It should be noted that neither of these individuals were interviewed for this Phase I ESA, information was obtained solely from the e-mail chain. Don Bernier, current member of the Sappi Line Crew, indicated during the Site Reconnaissance with TRC conducted on May 11, 2012, that he recollected the oil in the transformer being changed out to "silica oil" some time from 2007 to 2008, but he was not confident in the dates provided.

Based on observations made by TRC during the Site Reconnaissance no visual evidence of release was observed (the concrete surrounding the transformer platform was clean with no apparent oil staining). The current transformer appeared to be in good conditions with no evidence of leaks or corrosion.

Fire Chief Charlie Hammond indicated that minor electrical fires had occurred at the Site, but he did not indicate if they were related to the transformers. No evidence of fires was observed in the area of the transformers or elsewhere on the Site.

Fore Bay Sediments

The fore bay at the Site is periodically drained and excavated for maintenance purposes. The sediment naturally settles out in this location when the water velocity slows before it enters the penstocks. Two recent occasions of sediment removal were documented in 2001 and 2005. In both instances the fore bay was drained by lowering the water level and river bottom sediments were removed using an excavator. Sediment removed in 2001 was sampled for metals. Arsenic exceeded current MEDEP Residential Remedial Action Guidelines (RAG) at 1.9 mg/kg; however, the results are also below the current Soil Background Concentrations and Outdoor Commercial Worker, Park User and Construction Worker RAGs. Sediment removed in 2005 was sampled for metals, PCBs and polycyclic aromatic hydrocarbons (PAHs). Arsenic was detected at concentrations ranging from 1.6 to 2.0 milligrams per kilogram (mg/kg) exceeding MEDEP Residential Remedial Action Guidelines (RAG); however, results are below the current Soil Background Concentrations and Outdoor Commercial Worker, Park User and Construction Worker RAGs.

The sediment from the 2005 dredging was stockpiled onsite during the Site Reconnaissance and some was reportedly used to fill in pot holes and settling in numerous places the parking lot and on snow and ice in the winter months.

According to the June 28, 2012 Environmental Assessment for Soils report prepared by Northeast Test Consultants (NTC), the 2005 stockpile was sampled again on June 11, 2012, after TRC's Site reconnaissance, for disposal characterization. None of the samples contained detectable concentrations of the constituents analyzed (RCRA metals, mercury, PCBs, semi-volatile organic compounds, volatile organic compounds). Additionally, corrosivity, flash point and total solids were within acceptable limits. NTC recommended the soil be disposed offsite at "any landfill" based on the analytical results. The stockpile was subsequently removed from the Site.

PCB Fish Tissue Data

TRC reviewed the MEDEP *Surface Water Ambient Toxics Monitoring Program Final Report*, dated 2010 for fish tissues analyzed for PCBs in the Presumpscot River. Three locations were sampled, one upstream from the Site in Dundee Pond and two downstream along the Presumpscot River. Concentrations upstream were 5.7 and 12.4 parts per billion (ppb) (ppb = ng/g) total PCBs, below or very near to the 11 ppb Maine Center for Disease Control Fish Tissue Action Level (MCDC FTAL). Downstream samples contained concentration of total PCBs ranging from 51.4 to 216.5 ppb, well above the MCDC FTAL.

Although no special advisory exists for the Presumpscot River based on these levels; a consumption advisory exists for all Maine's inland waters limiting sensitive receptors to 1 meal per month of only brook trout and landlocked salmon due to mercury levels. People over the age of 8 are limited to 2 meals of freshwater fish per month and 1 meal per week of brook trout or landlocked salmon.

The fish tissue data mentioned above are provided for their possible relevance to general conditions in the Presumpscot River, but there are no specific data or other evidence pointing to the Site or surrounding properties as having contributed to the PCB results in fish tissue.

A copy of other documents and plans obtained during this Phase I ESA process have been included in Appendix 8.

5.0 SITE RECONNAISSANCE

TRC staff, Ms. Allison Drouin (Principal Investigator) and Mr. Charles Springer (Task Manager), conducted a Site reconnaissance on May 11, 2012. Tom Howard (Sappi Environmental Manager) and Don Bernier (Line Crew Member) accompanied TRC during the Site reconnaissance. The following is a summary of visual and physical observations of the Site on the day of the Site visit. Photographs taken during the reconnaissance are provided in Appendix 2.

5.1 Methodology and Limiting Conditions

The Site reconnaissance consisted of visual and/or physical observations of the Site, as well as visual curbside observations of adjoining properties and general area characteristics. Building interiors were observed, if they were safely accessible. Exterior and unimproved portions of the Site were observed along the perimeter and in a general grid pattern in safely accessible areas.

The Furnace Room beneath the apartment portion of the hydro building (Powerhouse) was not completely observed due to lack of safe access to this lower level (stairs do not exist from the main floor to the lower level). Limited observation of the room was made from a platform that extended just below the room ceiling with a flashlight. The eastern side of the room was observed without obstruction but the western portion could not be observed from this vantage point. Sappi subsequently provided photographic documentation of the furnace room. The inability for TRC to visual observe the entire area is considered a limiting condition for this report; however; due to the provided photographic information this limiting condition is not expected alter the outcome of this report.

The river bottom at the Site and sediments upstream of the hydro-electric generation station and impoundment dam were not observed due to the presence of water in the fore bay and river channel and is therefore considered a limiting condition for this report.

The island adjacent to the dam could only be observed from a distance and is therefore considered a limiting conditions of this report, this limitation is not anticipated to alter the conclusions of this report.

TRC inspected the area within the woods along the River and along the Transmission line. The size and densely-forested nature of the Site is considered a limitation to the Phase I ESA as it limited TRC's ability to observe all surficial soil conditions at the Site. However, based on materials that were observed by TRC, this limitation is not anticipated to alter the conclusions of this report.

Weather conditions at the time of Site reconnaissance were clear and approximately 65 degrees Fahrenheit with no visibility limitations (other than those noted herein for the interior building space).

5.2 Hazardous Substance Use, Storage, and Disposal

During TRC's Site reconnaissance, containers of kerosene, waste oil, common cleaners, and other commercial size (5-gallons or less) containers of chemicals and petroleum products were observed in numerous places the Site building in the turbine room and in the apartment portion. Materials were generally stored in secondary containment such as the fire cabinet and plastic containment basin; however, two kerosene containers were observed in the apartment part of the building that were not in secondary containment.

Abandoned and corroded drums, metal scraps, slag and gas tanks, were observed in numerous places the northeast portion of the Site, north end of the Transmission Line Property. This debris is believed to be historical mill waste dumped on the site during the time the adjacent mill was in operation (pre-1975).

Mature trees were observed growing out of the debris. The extent of the above described materials is depicted on Figure 2 in Appendix 1.

Minor staining was observed at the base of the transmission line utility poles. This staining was presumed to be a wood preservative/treatment washed off from the wood poles.

5.3 Underground Storage Tanks

No visual indications (i.e., pipes, vents, or pumps) that would indicate former or current USTs were apparent during the Site visit.

5.4 Aboveground Storage Tanks

No ASTs were observed onsite during Site reconnaissance. The Site building is heated by the residual heat of the turbines eliminating the need for onsite fuel storage.

TRC did not visual observe the furnace room; however Sappi provided photographic documentation of this area and stated that ASTs were not present (see Appendix 3 for photographic documentation).

One 275-gallon AST was included in the purchase and sale agreement and no documentation of removal was found during this Phase I ESA.

5.5 Polychlorinated Biphenyls

PCBs were historically used as coolants in dielectric fluid utilized in some electrical transformers, fluorescent light ballasts, capacitors, and other electrical equipment manufactured prior to 1978. PCBs were additionally historically used in hydraulic fluid used in hydraulic equipment manufactured prior to 1978. PCBs are also found service in many building materials like caulking, glazing, paint, joint sealants, and mastics and were commonly used in these products during the time of construction / renovation of the Powerhouse and apartment structures.

A step-up transformer is located on a lower platform on the eastern side of the dam. According to Don Bernier, the transformer contains silica oil as of 2007 or 2008 and does not contain PCBs. No staining or leakage was observed around the transformer. Three 333 KVA transformers were included in the purchase and sale agreement, these were replaced at some point with the current transformer; however, a replacement date cannot be pinpointed. Additional historical information regarding this transformer as well as the prior transformers in this location is included in Section 4.4.6.

Two station service transformers were located on the eastern exterior wall of the dam. These transformers are reportedly the original station transformers. Based on the age of construction of the dam, these transformers may contain PCBs oil. No oil staining or leakage was observed near either of the transformers. Based on observed conditions, it is unlikely that these two transformers have environmentally impacted the Site.

Florescent lighting of unknown age was observed in the apartment portion of the Site.

Although a building material survey was not conducted, based on the age of the reconstruction of the Powerhouse and apartment it is possible PCBs may be present in some of the building materials used at the Site. However, a release to the environmental of these materials was not observed.

No other pole-mounted transformers or other potentially PCB-containing electrical/mechanical equipment was observed during the Site reconnaissance or was reported to TRC by Site management personnel.

5.6 Drains and Sumps

No floor drains or sumps were observed inside the Site building. A trap door to the turbines and penstocks beneath the Powerhouse main floor was located in front of each generator.

5.7 Wastewater

TRC did not observe indication of wastewater generated, treated or discharged at the Site. TRC did not observe the discharge pipe that David Rolfe (former Sappi employee) discussed during his interview (pipe allegedly from High Street School) (see summary of this interview below).

5.8 Waste Pits, Ponds, or Lagoons

TRC did not observe indication of waste pits, ponds or lagoons at the Site.

5.9 Non-hazardous Solid Waste

No evidence of solid waste in excess of quantities typical of the Site's operation as a hydroelectric plant was observed within the Site building.

Non-hazardous solid wastes including wooden beams, old utility poles, concrete, rubber belts, metal molds and bricks as well as commercial size unlabeled containers, bathmats, and aluminum cans were observed near the northeast corner of the Site at the northern end of the transmission line. The southern portion of the transmission line, south of the surface water drainage, contained little observed solid waste. Only a few pieces of solid waste, including plastic bottles, coffee cups and a power tool plastic case; and an abandoned snowmobile were observed in the southern portion of the Site. The extent of the solid waste observed has been delineated on Figure 2 in Appendix 1.

5.10 Septic Systems

No evidence of a septic system or leach field was observed onsite.

5.11 Wells

TRC did not observe any indications of current or former potable, irrigation, or monitoring wells at the Site during the Site reconnaissance.

5.12 Other Environmental Concerns

TRC observed a large pile of sand in the parking lot portion of the Site. This material was reportedly material removed from the fore bay. See section 4.4.6 for additional information.

TRC observed a PVC pipe sticking out of the ground along the river. Neither Tom Howard, nor Don Bernier were aware of this pipe or where it came from. Don Bernier could confirm that the pipe was not present the previous fall when he last did landscaping at the Site. No road box, stickup pipe or any other indication that it may be a monitoring well was observed. In addition, records of wells at the Site were not identified at the in the EDR database report.

TRC observed several mounds of soil, grass and trees stumps along the Transmission Line corridor. These piles of earth were presumed to be from the clearing of the corridor for access by vehicle. Additionally, several small sand piles were observed at the southeastern tip of the Site; these sand piles were assessed to be created by wild animals digging shelters.

Relatively recent earth disruption in the observed fill was observed at the base of many trees in the northern part of the Site. Fill material had been dug back away from the trees on the river/downgradient side in all cases. Mr. Howard was not aware of who (or what) had dug these holes or why and speculates that this digging might have been done as part of the recent EPA brownfields investigation. .

No other indications of contamination were observed during the Site Reconnaissance.

6.0 INTERVIEWS

The following persons were interviewed to obtain historically and/or environmentally-pertinent information regarding RECs in connection with the Site. Documentation for interviews is provided in Appendix 3. Information obtained during TRC's interview process is incorporated into appropriate sections of this report.

6.1 Interview with Owner

Mr. Tom Howard, Sappi Environmental Manager and the Owner's Key Site Manager, accompanied TRC during the Site Reconnaissance and was able to provide TRC with basic past usage and ownership information as well as current use general site knowledge. During the Site Reconnaissance, Mr. Howard identified two environmentally pertinent pieces of information.

- Mr. Howard indicated that 10 to 15 years ago a test pit was dug through the center of the parking lot to a depth of approximately 12 to 15-feet. This test pit was dug to assess hydrologic conditions and causes of certain flow patterns in the river. Adjacent property owner and prior Site owner, Mr. Lawrence Keddy, was onsite for this test pitting event and repeatedly indicated that "they shouldn't dig there." It is not known what Mr. Keddy was referencing, or whether he was referencing environmental conditions or some other condition. The trench was dug and no evidence of contamination was observed. Primarily gravel was excavated with some evidence of building demolition materials towards to bottom depth.

- Mr. Howard also indicated that the river to the south of the parking lot area is occasionally excavated to remove sedimentation that occurs above the dam due to natural processes. A stockpile of excavated sand was sampled in 2001, 2005 and again in 2012. According to Mr. Howard the stockpile showed no signs of contamination based on the data provided to Sappi by Katahdin Analytical (2001) and Woodard & Curran (2005). The most recent samples collected by NTC (2012) contained no detectable concentrations of contaminants analyzed. The stockpile was determined to be safe for disposal at any landfill. The stockpile has been removed from the Site since TRC's Site reconnaissance. Details of the stockpile sampling are described above in Sections 4.4.6.

6.2 Interview with Site Management Personnel

TRC briefly interviewed Mr. Don Bernier, a member of the Hydro Line Crew. He indicated that he is the only Site occupant. The dam operates unmanned 24 hours a day, 7 days a week. Mr. Bernier stops by daily to check for possible malfunctions or equipment failures but generally does not remain onsite for more than 1 hour per day.

Don Bernier and former members of the Line Crew (see Table 6-2) were interviewed for environmentally pertinent information at the Site. Mr. Bernier indicated he saw nothing out of the ordinary at the Site, though he rarely visits the Transmission Line Property. As indicated during an interview (See below Section 6.5), former Line Crew member, Guy Lebreque, recalls seeing scrap metal during landscaping and maintenance along the transmission line.

6.3 Interview with Site Occupants

There are no regular occupants at the Site. The line crew visits the Site for a short time on daily basis to assess operations.

6.4 Interviews with Local Government Officials

As part of this assessment, TRC visited local regulatory agencies to obtain environmentally and historically-pertinent information that could identify RECs in connection with the Site. All interviews conducted with local government officials were successfully completed and information obtained is incorporated into Section 4.3.1 of this report. A summary of local government officials interviewed for this Phase I ESA is provided below in Table 6-1.

Table 6-1: Summary of Local Government Official Interviews

Local Regulatory Agency	Name / Title	Interview Type
Assessors' Office Windham	Office Assistant	In person
Fire Department	Charlie Hammond / Fire Chief	Telephone
Portland Water District	Water Supply Department and Heather Fields / Customer Account Services	Telephone and electronic mail

6.5 Interviews with Others

Additional interviews were conducted by Pierce Atwood, LLC. David L. Rolfe, Bill Foley, John McGregor, Guy LaBreque and Brad Goulet were interviewed for information regarding their position with S.D. Warren at the time of the acquisition of the Site, any information they have regarding the acquisition and any other environmentally pertinent information they recall from their time onsite. The following Table 6-2 summarizes each interviewee's responses. A copy of the interview document has been included in Appendix 3.

Table 6-2: Interview Summary of Sappi Employees with Historic Site Knowledge

Interviewee	Summary of their Responses
David L. Rolfe / Former Engineer, Project Manager, Corporate Engineering Group	Mr. Rolfe was heavily involved with the acquisition of the Little Falls Hydro property. He assessed the dam's usefulness and ability to connect to the paper mill in Westbrook. He performed a Site walk of the property which also included a shoreline inspection from a canoe. He recalled seeing a sewer discharge pipe coming from the High Street School that discharged to the river. He does not recall observing slag, rubble, debris or anything unusual. He assisted in the "due diligence" regarding the sanitary discharge pipe from the Site building to the river and indicated S.D. Warren never used the discharge. He indicated that an approximately 30-foot clearance was treed access to the transmission line; indicating the property was wooded at the time of purchase. Mr. Rolfe recalls seeing piles of scrap metal at the adjacent mill property after 1974 but was not aware of any disposal on Site.
Bill Foley / Former Electrical Engineer	Mr. Foley was involved in assessing the electrical systems and integrity of the hydro units. He indicated that the dam produced 2.3 kilovolts (kV) of power and transformers were installed to step up the voltage to 11 kV. He does not recall any dumping or unusual conditions that the Site. He did indicate that he saw "junk" on the Keddy Mill Property. He recalls the Site transmission poles being in ok conditions. He did not recall seeing any activity at the adjacent mill after the purchase of the dam.

Table 6-2: Interview Summary of Sappi Employees with Historic Site Knowledge

Interviewee	Summary of their Responses
John McGregor / Former Project Engineer	Mr. McGregor performed dam renovations and reconstruction at several other of the S.D. Warren owned dams. He indicated that the Little Falls Hydro property was in good conditions and not much work was done there. Mr. McGregor indicated that he had only been to the Little Falls Hydro Property a few times and had little involvement there. He indicated that he never visited the transmission line portion of the Site. He indicated the adjacent Keddy Mill was not running and was in a dilapidated condition when he visited the Site. He never went inside the Keddy Mill.
Guy LaBrecque / Former Line Crew Electrician, Supervisor	Mr. Lebreque indicated that he worked on maintaining and updating the electrical components at the dam in the 70s and 80s. He indicated that a small amount of lubricating oil may have been released when the generators failed. Any events would have been logged in the station log kept at the Little Falls Station. TRC did not find evidence or documentation of this release. His crew also visited the transmission line regularly for maintenance, vegetation removal, pole replacement and application of *Banbel* herbicide to control vegetation (It is assumed that *Banbel* was applied according to manufacturer's instructions). He recalls seeing debris within 25-feet of the transmission line including iron and bricks. He also maintained the vegetation at the Site after 2001. He indicated that during mowing, pieces of metal and glass had to be removed from the transmission line corridor to prevent damaging his tractor. He recalls seeing the adjacent Keddy Mill in operation but indicated the mill was not in operation at the time of purchase of the dam.
Brad Goulet / Current Hydro Manager, Utilities Engineer	Mr. Goulet performed inspections and repairs at the Site after 2000. He indicated that when the fore bay filled with sand on occasion and is excavated using a bobcat and stockpile in the parking lot; the sand was sampled under Tom Howards direction. He indicated that they are working on a recreational plan for the area. Mr. Goulet has only visited the transmission portion of the Site briefly for a prior archeological, shoreline and erosion control inspection. Mr. Goulet did not provide any information related to the adjacent Keddy Mill property.

7.0 FINDINGS AND OPINIONS

TRC's investigation revealed the following environmental findings in connection with the Site:

- **On-Site Historical Mill Use *(Hydro Property)* –** The northwest portion of the Site was historically occupied by portions of a mill complex dating back to the mid-1700s. Historical documents indicate that the Site was occupied by storehouses, a railroad loading dock, machine rooms, wood grinders and beater engines during the first half of the 1900s. The portions of the mill complex occupying the Site were demolished during the 1950s, with the exception of the hydro-dam. Current Site buildings were rebuilt in the early 1960s and have remained relatively unchanged since. Based on TRC's experience, historical operations associated with paper/steel mills would have required the presence of oil and/or hazardous materials to be used in those operations; however, this Phase I ESA did not identify any information to indicate a release of oil and/or hazardous materials from these historic mill operations on this portion of the Site.

- **On-Site Dumping of Historical Mill Waste and Documented Contamination Associated with the Keddy Mill *(Transmission Line Property)* -** During TRC's Site reconnaissance, abandoned drums, corroded drums, metal scraps, wooden beams, old utility poles, concrete, slag, rubber belts, gas tanks, metal molds, bricks and other solid waste including commercial size unlabeled containers, bathmats, and aluminum cans were observed on land in numerous locations in the northeast portion of the Site, north end of the transmission line. This debris is believed to be historical mill waste dumped on the site during the time the adjacent mill was in operation (pre-1975). Mature trees were observed growing out of the debris. The southeast portion of the Site, south of the surface water drainage, appears to contain no debris except a few pieces of solid waste and an abandoned snowmobile.

  A June 25, 2011 memorandum prepared by Summit and associated with a Keddy Mill Site Investigation reported investigation findings which revealed five areas of concern (AOC) associated with Keddy Mill, two of which have the potential to impact the Site: (1) a slag, metal and PCB area along the western property line (northeast portion of the Site on the Transmission Line Property, Summit AOC-4) and (2) the slag and metal area at the south end of the Keddy Mill Property (with is presumed to be in a similar area to (1), Summit AOC-5). These areas are identified on Figure 2 of Appendix 1. Samples collected within this slag, metal and PCB area in the northeast portion of the Site contained PCB concentrations of 1.3 ppm to 4.6 ppm. The slag area is delineated approximately 200-feet onto the Site, though Site observations confirm the fill area extends further to the south (see delineated area on Figure 2 of Appendix 1).

  The observation of historical mill waste and related fill material and documented contamination in numerous locations in the northeast portion of the Site, north end of the transmission line, is considered REC.

- **On-site Presence of Current and Historical Transformers *(Hydro Property)* -** TRC reviewed the 1974 Purchase and Sale Agreement for the Site which included a list of electrical equipment transferred with the Site and included three 333 KVA transformers. The Little Falls Project Powerhouse Floor Plan dated August 15, 1979 depicts the three transformers positioned in the location of the current transformer on the eastern side of the Powerhouse. The updated plan dated December 9, 1997 still depicts the three transformers in this location. Bill Foley indicated in an interview (see Section 6.5) that these transformers contained PCBs at the request of the insurance company to prevent fires but that they were replaced in the recent past.

A purchase requisition, e-mail correspondence and transformer data report was reviewed dated 1998. The report was for the sampling of the current transformer's oil contents (Transformer 87), indicating that the original three transformers were replaced with the single step up unit at a point in time. The year of manufacture of the transformer is 1976. Based on the e-mail correspondence it is inferred that the oil in the unit was originally PCB-containing oil, but was changed out to non-PCB mineral oil. A sample from January 1981 indicated a concentration of 44 ppm; however, it is not indicated whether this was prior to the change to mineral oil or if it was the original PCB-containing oil. The new non-PCB oil was tested and contained 11 ppm PCBs in 1998. Another sample in 1999 indicated an increased concentration to 51 ppm; the increase was presumed by Barry Stemm to be from the leaching of PCBs from permeable interior parts of the transformer to the non-PCB containing oil. Based on the detected concentrations, Barry Stemm and Ray Pepin indicated in the e-mail correspondence that the transformers should be retrofitted or moved to a location away from the river. Don Bernier indicated during the Site Reconnaissance that he recollected the oil in the transformer being changed out to "silica" oil some time from 2007 to 2008, but he was not confident in the dates provided. A step up transformer is currently located on a lower platform on the eastern side of the Powerhouse.

Two station service transformers are located on the eastern exterior wall of the Powerhouse. These station service transformers are reportedly the original transformers serving the Powerhouse. Based on the age of construction of the dam, these transformers may contain PCBs oil. No staining or leakage was visually observed near either of the transformers. Fire Chief Charlie Hammond indicated that minor electrical fires had occurred at the Site, but he did not indicate if they were related to the transformers. No evidence of fires was observed in the area of the transformers or elsewhere on the Site.

Based on observations made by TRC during the Site Reconnaissance no evidence of a PCB oil release was visually observed associated with Site transformers. The concrete surrounding the transformers was clean with no apparent staining. The current transformers appear to be in good conditions with no evidence of leaks or corrosion.

- **On-Site Potential PCB Containing Building Materials *(Hydro Property)* –** Although a building material survey was not conducted, based on the age of the reconstruction of the Powerhouse and apartment it is possible PCBs may be present in some of the building materials used at the Site. However, a release to the environmental of these materials was not observed.

- **On-Site (Minor) Oil and Chemical Storage *(Hydro Property)* -** During TRC's Site reconnaissance, containers of kerosene, waste oil, common cleaners, and other commercial size containers of chemicals were observed in numerous places the Site in the turbine room and in the apartment. Materials were generally stored in secondary containment such as the fire cabinet and plastic containment basin; however, two kerosene containers were observed in the apartment part of the building and were not within secondary containment. No staining was observed around these containers. No other indication of the use, storage, or disposal of hazardous substances was visually observed during the Site reconnaissance.

- **Off-Site Contamination at the Adjacent Keddy Mill Property *(Hydro and Transmission Line Properties)* -** The adjacent Keddy Mill property has been involved in the Maine Department of Environmental Protection (MEDEP) Voluntary Response Action Program (VRAP) since November 2005.

  In 1993, a Phase I ESA identified the presence and possible subsurface impacts associated with a 10,000-gallon petroleum UST in the northeast portion of the disposal site. The ESA also

recommended investigation of a former transformer pad and floor drains/outfalls associated with the Keddy Mill property building.

In 1997, a Phase I ESA and Phase II Subsurface Investigation conducted by S. W Cole identified two additional oil tanks along the northern edge of the disposal site. These tanks were found to have leaked to the subsurface, impacting surrounding soil. The tanks and 11 tons of surrounding impacted soil were removed.

In 2004, a Supplemental Site Investigation performed by Ransom Environmental Consultants identified PCB contamination throughout the building and in surrounding soils. Additional sampling was conducted to support a Self-Implementing PCB Cleanup Plan to USEPA. The plan was approved for the removal of the PCB impacted materials; however, a bid package for the cleanup was not prepared until November 2007 and quotes for the cleanup were not received until April 2010. No cleanup has been done to date.

MEDEP was notified of the release of PCBs by apparent vandals at the property on July 5, 2005. Approximately 30 to 40-gallons of previously documented PCB containing oil was released from electrical equipment that was damaged by the vandals. A subcontractor was hired to clean up the release and no further action was taken related specifically to the spill number. Additional response actions were tied into the VRAP investigation and cleanup.

In 2010, additional sampling revealed extensive PCB impacts to soil throughout the Keddy Mill property. Results exceeded the TSCA threshold of 50 ppm in some locations on the Keddy Mill Property. Concentrations of 1.1 to 14 ppm total PCBs (Aroclors) were detected in surficial soil samples collected from adjacent to the property line near the northeast corner of the Site parking lot. Results for the rest of the adjacent property were as high as 1,100 ppm PCBs.

Additional sampling was conducted by Summit to assess the potential for iron filings found throughout the property to be a source of PCBs. A June 25, 2011 memorandum reported investigation findings which revealed five areas of concern (AOC) associated with Keddy Mill, one of which is located near Site boundaries and has the potential to impact the Site: metal filing area on a portion of the mill parcel north of the dam to the northeast of the Site parking lot (Summit AOC 1), This area is identified on Figure 2 of Appendix 1.

A Phase I ESA was prepared in March 2011 by Summit Environmental Consultants and identified documented PCB soil impacts, slag, drums, stressed vegetation, demolition debris and abundant staining observed during the site reconnaissance.

In the spring of 2012, USEPA completed a Preliminary Assessment (PA) for the Keddy Mill property under the Superfund Program. USEPA is currently developing a Work Plan as part of the Superfund Site Investigation (SI) process for the Keddy Mill property.

Due to the proximity of the Keddy Mill property to the Site, there is the potential that impacts (PCBs, slag, debris, etc.) could migrate across the current property line through natural (e.g., wind, stormwater runoff, etc.) and/or manmade (e.g., mill operations, dumping, regrading, etc.) pathways. Based on the documented impacts on the Site and documented impacts throughout the Keddy Mill property in proximity to the current property line; the environmental impacts associated with the Keddy Mill are considered a REC.

- **Off-Site Kerosene Release from the 859 Gray Road Residential Property *(Transmission Line Property)* -** On February 21, 2011, approximately 214-gallons of kerosene leaked from a

residential AST located adjacent to the northern end of the Site to the west. The filter had been broken off when snow from the roof was shoveled off onto the AST. Allstate Environmental was contracted to conduct response actions. Impacted soil (20.43-tons) was removed via vacuum truck and disposed of offsite. Groundwater was found to be impacted and recovery wells were installed with a pump and treat trailer onsite. No further information was available.

Based on the lack of documentation confirming the extent of impacts to the east and northeast towards the Site and the unknown outcome of the remedial system, the release associated with spill number P-130-2011 has the potential to environmentally impact subsurface conditions at the Site and therefore is considered a REC for the Transmission Line Property.

- **Off-Site Gasoline Release, Cumberland County Emergency Management Bunker, 22 High Street *(Transmission Line Property)*** – On November 16, 1994, a release of unleaded gasoline from a UST occurred. The quantity was not reported. Two water supply wells were determined to be impacted and one was presumed to be at risk by the MEDEP Primary Responder. Two USTs, one gasoline and one fuel oil, were removed from the property which appeared to be intact with no evidence of release as observed by the consulting firm J.B. Plunkett Associates. No further action by the MEDEP Division of Response Services was deemed necessary according to the spill report. No additional details were available for review by TRC.

  Based on the fact that the tanks have been removed and there was no evidence of contamination during UST removal, the release associated with spill number P-718-1994 is not likely to have impacted environmental conditions at the Site.

- **Adjacent Railroad Line to the East *(Transmission Line Property)* -** Since at least 1891, a segment of railroad has been located hydrogeologically upgradient and adjacent to the eastern Site boundary. Environmental impacts typically associated with historic railroad lines include soil and/or groundwater contamination from releases stemming from the presence of coal, creosote, heavy metals, pesticides, herbicides and petroleum. However, no information regarding documented releases or evidence of impacts was identified or observed.

- **Data Gaps and Limitations –** The following present the data gaps and limitations, as defined by ASTM E1527-05, which were identified during the course of this Phase I ESA:

  - No data gaps or data failures were identified during this Phase I ESA.

  - The Furnace Room beneath the apartment portion of the hydro building (Powerhouse) was not completely observed due to lack of safe access to this lower level (stairs do not exist from the main floor to the lower level). Limited observation of the room was made from a platform that extended just below the room ceiling with a flashlight. The eastern side of the room was observed without obstruction but the western portion could not be observed from this vantage point. Sappi subsequently provided photographic documentation of the furnace room. The inability for TRC to visual observe the entire area is considered a limiting condition for this report; however; due to the provided photographic information this limiting condition is not expected alter the outcome of this report.

  - The river bottom at the Site and sediments upstream of the hydro-electric generation station and impoundment dam were not observed due to the presence of river water in the fore bay and river channel and therefore considered a limiting condition for this report, this limitation is not anticipated to alter the conclusions of this report.

- The size and forested nature of the Site is considered a limitation to the Phase I ESA as it limited TRC's ability to observe all surficial soil conditions at the Site. However, based on the current and historic undeveloped nature of the Site, this limitation is not anticipated to alter the conclusions of this report.

- The island adjacent to the dam could only be observed from a distance and is therefore considered a limiting condition of this report, this limitation has a low probability of altering the conclusions of this report.

- The parcel in Gorham on the south side of the river was viewed from the top of the dam from the right of way off Gray Road. This portion of the Site was not safely accessible due to a steep slope. From the elevated vantage point the parcel appear to be generally bare bedrock with natural pools and rapids from the river. However, based on the current and historic undeveloped nature of the Site and presence of the Presumpscot River through this parcel, this limitation is not anticipated to alter the conclusions of this report.

8.0 CONCLUSIONS

TRC has performed a Phase I ESA of the Little Falls Site (Hydro and Transmission Line Properties) Windham and Gorham, Cumberland County, Maine. This assessment has been conducted in conformance with the scope and limitations of ASTM Practice E 1527-05 and AAI regulation. Any exceptions to, or deletions from this practice are described in Section 1.3.4, Section 8 and Section 9 of this report.

Based on observations made and interviews performed during TRC's Site reconnaissance, as well as a review of regulatory database information and historical documentation, TRC concludes that this assessment has revealed three RECs, as defined by ASTM, in connection with the Site.

- On-Site dumping of historical mill waste and documented soil contamination;
- Off-Site contamination at the adjacent Keddy Mill property; and
- Off-Site kerosene release from the adjacent 859 Gray Road residential property.

9.0 DEVIATIONS

The protocol utilized for this Phase I ESA was in accordance with the requirements of ASTM Standard E 1527-05 and AAI regulation. No deviations to the ASTM E 1527-05 Practice were identified.

10.0 ADDITIONAL SERVICES

The Client did not request that TRC identify additional potential environmental issues beyond the standard Phase I ESA requirements of ASTM Standard E 1527-05.

11.0 REFERENCES

All Appropriate Inquiries Rule. *Standards and Practices for All Appropriate Inquiries*. 70 Fed. Reg. 66070, titled "40 CFR Part 312, November 2006.

American Society for Testing and Materials. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E 1527-05. November 2005.

Consla Geotechnical Engineering, Inc. *Phase I Limited Environmental Assessment, Lot No 7 of Map 38, Windham Township, South Windham, Cumberland County, Maine*. Dated: March 18, 1993.

Correspondence, *E-mail Correspondence between Leo Berube, Barry Stemm, Guy Lebreque, Raymond Pepin & Bruce Hills Regarding PCBs in Transformers (includes PCB data dated 1998)*; E-mail Chain dated August 1999.

Cumberland County Online Registry of Deeds. Online: October 27, 2011: https://me.uslandrecords.com/ME/Cumberland/default.aspx?AspxAutoDetectCookieSupport=1

Environmental Data Resources, Inc., *The EDR Aerial Photo Decade Package*, Inquiry Number 3316917.4, dated May 7, 2012.

Environmental Data Resources, Inc., *The EDR Radius Map with GeoCheck®*; Inquiry Number 3316917.2r, dated May 4, 2012.

Environmental Data Resources, Inc., *Certified Sanborn® Map Report*; Inquiry Number 3316917.3, dated May 7, 2012.

Google Earth. *Historical Aerial Photograph Tool*. Maps for years 1998, 2003, 2006, 2007, 2010 and 2011.

Katahdin Analytical Services, *Dredging Sand Sampling – Lab Number WR3875*. Dated December 10, 2001.

Maine Department of Environmental Protection, Bureau of Remediation and Waste Management. *Division of Remediation Sites List*. Online: accessed May 7, 2012, Last Updated April 25, 2012. http://www.maine.gov/dep/gis/datamaps/brwm_remediation_sites/rpt_rem_site_list.pdf

Maine Department of Environmental Protection. *Hazardous Oil Systems Site Database*. Online: accesses May 7, 2012: http://www.maine.gov/dep/rwm/hoss/search.php?DL=GO

Maine Department of Environmental Protection. *Interactive Maps*; Online: accesses May 7, 2012: http://www.maine.gov/dep/gis/datamaps/index.htm#Google_Earth_Maps.

Maine Department of Environmental Protection; *Active Landfill Database*. Online: accessed May 7, 2012 http://www.maine.gov/dep/rwm/solidwaste/landfillactive.xls

Maine Department of Environmental Protection, *"Active and Out of Service Registered Underground Storage Tanks including Tanks That Have Not Been Properly Abandoned" List*. Online: accessed May 7, 2012, Last Updated: May 2, 2012: http://www.maine.gov/dep/rwm/data/pdf/activeoutofservicetanks.pdf

Maine Department of Environmental Protection. *Spill Report Master List*. Online: accessed May 7, 2012, Last Updated: April 24, 2012. http://www.maine.gov/dep/maps-data/documents/spills.pdf

Maine Department of Environmental Protection, *"Registered Underground Storage Tanks" List*. Online: accessed May 7, 2012, Last Updated: May 2, 2012 http://www.maine.gov/dep/rwm/data/pdf/regundtanks.pdf

Maine Geological Survey, *Bedrock Geology of the Portland 1:100,000 Quadrangle, Maine*, Open-File No. 98-1, dated 1998.

Maine Geological Survey, *Surficial Geology of the Portland 1:100,000 Quadrangle, Maine*, Open-File No. 06-01, dated 2006.

Maine Geological Survey, *Significant Sand and Gravel Aquifers in the Gorham Quadrangle, Maine*, Open-File No. 98-143, dated 1998.

Maine Geological Survey, *Overburden Thickness Portland 30x60-minute Quadrangle, Maine*, Open-File No. 10-65, dated 2010.

Northeast Test Consultants, *Environmental Assessment for Soils at Little Falls Hydro Station, US Route 4/202, Windham, Maine*: dated June 28, 2012.

Ransom Environmental Consultants, Inc. *Bidding Documents, Former Keddy Mill Remediation, 7 Depot Street, South Windham, Maine*. Dated: November 1, 2007.

Ransom Environmental Consultants, Inc. *Plan for Self-Implementing Cleanup of PCB Remediation Waste – Phase I, 7 Depot Street, South Windham, Maine*. Dated: April 28, 2006.

Ransom Environmental Consultants, Inc. *Voluntary Response Action Plan for Village at Little Falls, LLC, South Windham, Maine*. Dated: June 8, 2005.

Summary of Historical Information of the Presumpscot River from Early Histories of the Adjoining Towns. Perkinds, Thompson, Hinckley & Keddy, Portland, ME, Primary sources available at the Maine Historical Society, Portland, Maine.

Summit Environmental Consultants, Inc., *Keddy Mill Soil Sampling Memo*, Dated: January 5, 2011

Summit Environmental Consultants, Inc. *Phase I Environmental Site Assessment, Keddy Mill, 7 Depot Street, Windham, Maine.* Dated: March 17, 2011.

Summit Environmental Consultants, Inc., *Supplemental Sampling, April 2011 Memo*, Dated: July 25, 2011.

TRC, *Sappi Engineering Department File Review Document List – Little Falls Hydro Project*. Prepared for: Tom Howard (Sappi), Prepared by: TRC, South Portland, Maine: Dated May 16, 2012.

UNH Dimond Libarary, *Historic USGS Maps of Portland, Maine*. Accessed May 7, 2012, Last Updated February 19, 2002. http://docs.unh.edu/towns/KitteryMaineMapList.htm

United States Department of the Interior National Park Service (NPS form 10-900), *National Register of Historic Places – Little Falls Project. OMB Approcal No.1024-0018*.

United States Fish and Wildlife Services National Wetland Inventory, online, accesses May 7, 2012: http://www.fws.gov/wetlands/Data/Mapper.html.

United States Geological Survey, *Bedrock Geologic Map of Maine*, dated 1985.

United States Geological Survey Topographic Map, *Gorham Quadrangle, Maine, 7.5-Minute Series*, dated 2011.

Woodard and Curran, *Soil Stockpile Sampling Results Letter Report*. Dated: August 15, 2006.

Site Contacts:

- Tom Howard – Environmental Manager – Sappi
- Don Bernier – Line Crew – Sappi

Engineering Plans Obtained from Sappi File Review:

- 1818/1979. Index Map of the Property of the S. D. Warren Mill Trust;
- 1893/1935. Plan of Mill Property (Drawing F-481);
- 1974. Plan of Conveyance of Property and Easements at Gambo Falls from Commercial Chemical Corp. to Scott Paper Co. – S. D. Warren Division (Drawing F-705);
- 1974. Plan of Conveyance of Property and Easements from Lawrence J. Keddy to Scott Paper Co. – S. D. Warren Division (Drawing F-706);
- 1974. Plan of Conveyance of Property and Easements Mallison to Scott Paper Co. – S. D. Warren Division, Sheet 1 of 2 (Drawing F-707);
- 1974. Plan of Conveyance of Property and Easements Mallison to Scott Paper Co. – S. D. Warren Division, Sheet 2 of 2 (Drawing F-708);
- August 15, 1979. Powerhouse Floor Plans, Little Falls Project, S.D. Warren Division of Scott Paper Co.;
- July 14, 1978. Land at Gambo falls Conveyed by John D Phinney to Scott Paper Co. (Drawing F-774);
- August 15, 1979. Powerhouse Elevation and Section, Little Falls Project, S.D. Warren Division of Scott Paper Co.;
- December 8, 1997. Plan of Dam and Cross Section, Little Falls Project, S.D. Warren Co.;
- December 8, 1997. Powerhouse Plan and Section, Little Falls Project, S.D. Warren Co.;
- September 15, 2011. Plan of Dam and Cross Section, Little Falls Project, S.D. Warren Co.;
- September 15, 2011. Powerhouse Plan and Section, Little Falls Project, S.D. Warren Co.;
- Undated. Property Plan, Little Falls-Mallison Falls Hydro Station, Windham-Gorham, ME, Sheet 2 of 3 (Drawing F-703);
- Undated. Property Plan, Little Falls-Mallison Falls Hydro Station, Windham-Gorham, ME, Sheet 3 of 3 (Drawing F-704);
- Undated. Property Plan, Little Falls- Mallison Falls, Hydro Station, Windham –Gorham, Maine (Drawing F-705);
- Undated. Newhall Hydro Station, Windham-Gorham, Maine (Drawing F-697);

- Undated. Map of the Presumpscot River form Gambo Falls to Mallison Falls (Drawing F-61);
- Undated. Plan of the Presumpscot from the Basin to Westbrook (Drawing F-62);
- Undated. Profile of the Presumpscot River from Sebago Lake to Tide Water (Drawing F-210); and
- Undated. Presumpscot River Drainage Basin.

Local Record Review:

- Windham Assessor's Office – Office Assistant
- Gorham Assessor's Office – On-line
- Fire Department – Charlie Hammond / Fire Chief
- Portland Water District – Water Supply Department and Heather Fields / Customer Account Services

Records Obtained from Local Government Departments

- Town of Windham Assessor's Card
- Town of Gorham Assessor's Card
- Town of Windham Tax Map
- Town of Windham Zoning Map
- Town of Gorham Zoning Map
- Town of Gorham Tax Map
- Town of Gorham Interactive Map Showing Parcel

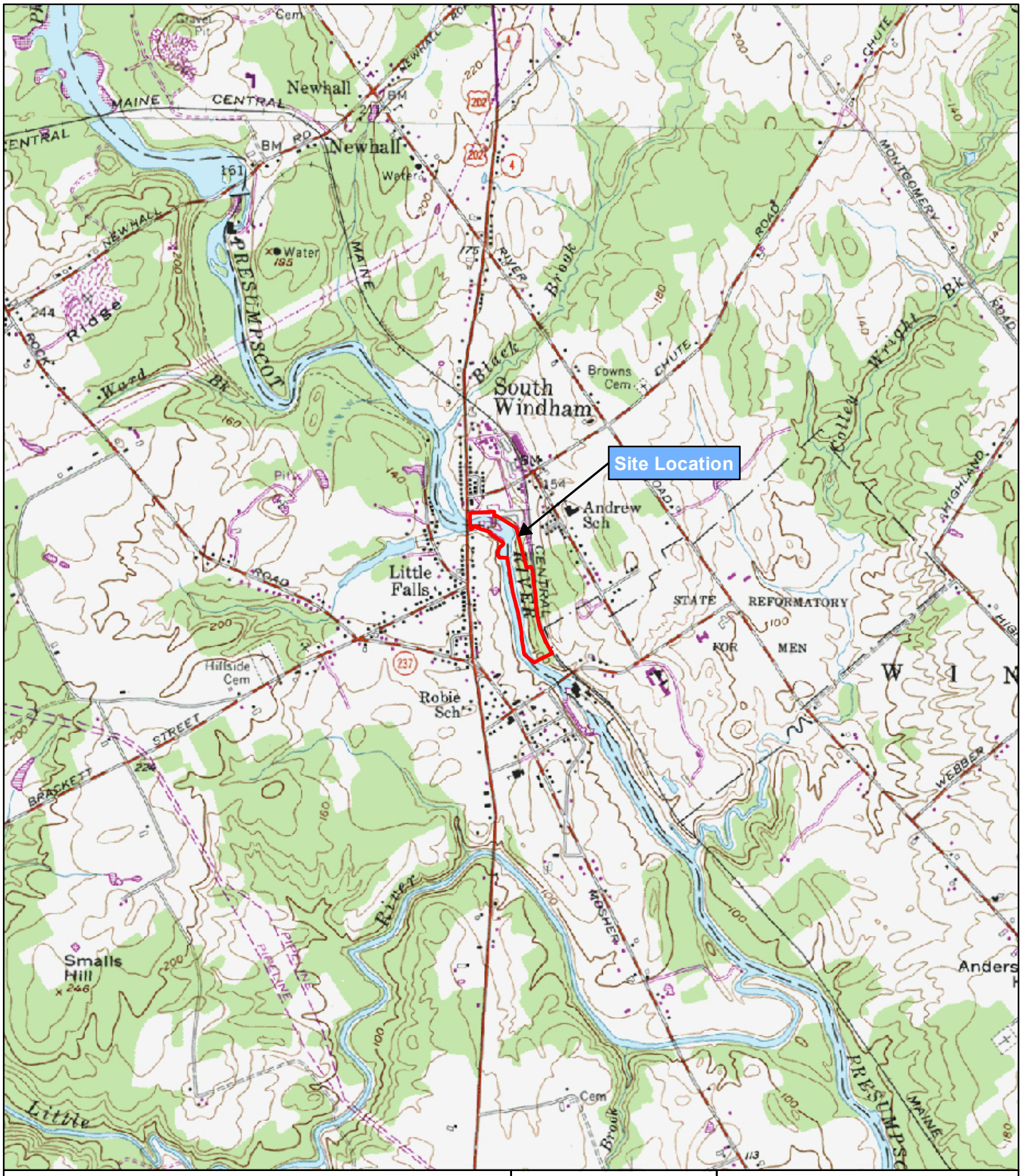
Interviews with Former Sappi Employees (Conducted by Pierce Atwood)

- David Rolfe
- Bill Foley
- John McGregor
- Guy Lebreque
- Brad Goulet

APPENDIX 1

Figures

Figure 1 – Site Location Map
Figure 2 – Site Plan



Approximate Site Boundary

N

Gorham and North Windham 7.5-Minute USGS Topographic Quadrangles

0 1,000 2,000 Feet

TRC
400 Southborough Drive
South Portland, ME 04106
207-879-1930

SITE LOCATION

LITTLE FALLS HYDRO AND TRANSMISSION LINE

WINDHAM AND GORHAM, MAINE

FIGURE 1 | DATE: 9/6/2012

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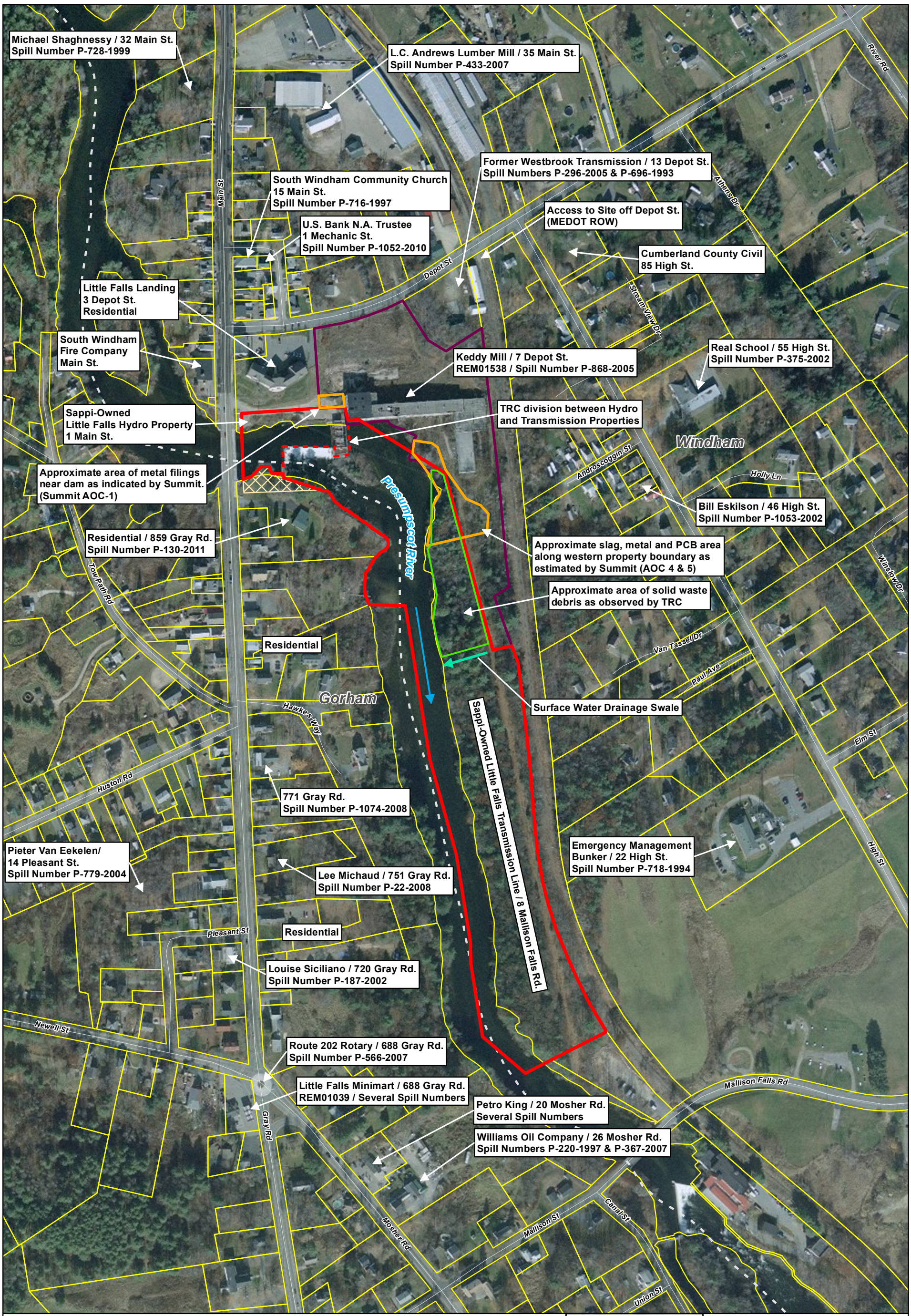

Site Boundary
Keddy Mill Property
Parcels
River Flow Direction
Public Roads
Approximate Town Boundary
Approximate Extent of Observed Solid Waste Debris
Approximate Areas of Concern identified by Summit (July 25, 2011)
Sappi Easement for Access to Gorham Side of Site

Basemap: USGS, 2009; Data Sources: Parcels, Windham, Town of Windham, 2011, Gorham, ME Library of Geographic Information, 2012; Roads, ME Public Utilities Commission, ME Emergency Services Communications Bureau

0 100 200 300 Feet

N

MAINE

MAP LOCATION

TRC
400 Southborough Drive
South Portland, ME 04106
207-879-1930

SITE PLAN
LITTLE FALLS SITE
WINDHAM AND GORHAM, MAINE

FIGURE 2 | DATE: 9/06/2012

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APPENDIX 2

Site Photographs

Site Reconnaissance Photo Log
Little Falls Hydro & Transmission Properties
1 Main Street & Depot Street, Windham, Maine

1. View of the Site from across the bend in the Presumpscot River, facing northwest.

2. View of the Site from across the Presumpscot River. View facing northeast.

3. Sluicegate platform on south side of Presumpscot.

4. View of the dam and sluice gates from the north side of the Presumpscot. View facing south.

Site Reconnaissance Photo Log
Little Falls Hydro & Transmission Properties
1 Main Street & Depot Street, Windham, Maine

5. View of the north side of the Powerhouse, view facing south.

6. View of the parking lot at the Site along the north side of the Presumpscot. View facing southwest.

7. View of the Powerhouse and apartment, view facing east.

8. View over the dam facing downstream. View facing southeast.

Site Reconnaissance Photo Log
Little Falls Hydro & Transmission Properties
1 Main Street & Depot Street, Windham, Maine

9. View facing upstream from the Site showing the Gray Rd/Main St bridge. View facing west.

10. Image of the shared wall between the Site and adjacent mill property to the east.

11. Image showing sand pile in parking lot which was reportedly dredged from the river bottom above the dam.

12. Image showing lower deck holding step-up transformer on eastern side of site building.

13. Station service transformers on eastern exterior wall of Site building. Original to structure (early 1960s)

14. Area beneath transformer showing no staining. Image shows only moisture and moss beneath the unit.

15. Area beneath station service transformers showing no staining.

16. Live high voltage electrical on eastern side of building.

17. Image showing old foundation for former mill structure. View from lower deck on eastern side of building facing southeast.

18. Image showing water existing beneath mill building.

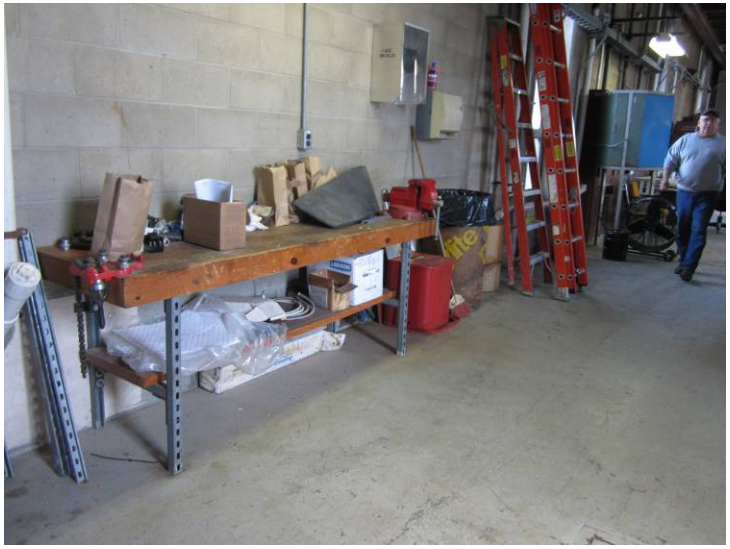
19. Image showing river under adjacent mill building. View from lower deck east of Site building.

20. Image showing adjacent mill building from the lower deck on east side of Site building. View facing northeast.

21. Image showing 1 of 4 turbine generators inside turbine room on main floor of Site building.

22. Turbine room on main floor of Site building.

23. View of turbine room along back side of turbine generators.



24. Work area in turbine room in Site building.

25. Controls in turbine room.

26. Compressors in Turbine room.

27. Flammable storage cabinet with available fire hydrants in case of fire.

28. Image showing interior of flammable storage cabinet.

29. Waste oil storage in secondary containment basin within turbine room.

30. Batteries stored in lower level of apartment portion of Site building. Batteries used for emergency power.

31. Electric heating in apartment portion of building.

32. Two kerosene cans and two heaters stored on lower level of apartment portion of the Site building.

33. Generator stored on lower level of apartment portion of the Site building.

34. items stored on the lower level of the apartment portion of the Site building.

35. Lighting in the apartment portion of the Site building.

36. Area beneath apartment portion of the Site building.

37. Area beneath apartment portion of the Site building.

38. Ladder down to area beneath apartment portion of the Site building.

39. Living room on second floor of apartment portion of Site building.

40. Kitchen on second floor of apartment portion of Site building.

41. Water damage on second floor of apartment portion of Site building.

42. Storage on second floor of apartment portion of Site building.

43. Patio on second floor of apartment portion of Site building.

44. Main living area on second floor of apartment portion of Site building.

45. Adjacent property to the north containing demolitions debris from former mill buildings.

46. Demolition debris on adjacent property to the north-northeast.

47. View of the Presumpscot River and adjacent property to the east.

48. Little Falls Landing apartment complex located adjacent to the Site to the north.

49. Gated distinguishing Mill property from the Site.

50. Image of the north end of the Site where it intersections with the MEDOT parcel.

51. View down the transmission line, view facing south.

52. Image showing abandoned tires near north end of the Site.

53. Image typical of conditions at north end of Site.

54. Image typical of conditions at north end of Site.

55. Buried metal scrap in north end of Site.

56. Image showing buried metal and bricks and north end of Site.

57. Image showing buried drum at north end of Site.

58. Image showing buried drum. Image typical of surface conditions in north end of Site.

59. Image showing slag along river bank.

60. Image showing slag in proximity to river.

61. Image showing slag and debris in north end of Site.

62. Image typical of conditions at north end of Site.

63. Bricks and debris along river bank at north end of Site.

64. Image showing dug area downslope of tree. This condition is typical of conditions throughout the north end of the Site.

65. Metal scraps protruding from slope in north end of Site.

66. Image typical of conditions at north end of Site.

67. Image showing apparent disturbed area.

68. Image typical of conditions at north end of Site. Scrap metal protruding from surface.

69. Large slag plate with drum crushed underneath in north end of Site.

70. Image showing another test pit or dug area in the northern end of the Site.

71. Image showing another test pit or dug area in the northern end of the Site.

72. Drainage stream running east to west into the Presumpscot River toward the center of the Site.

73. Presumpscot River adjacent to the Site.

74. Tool case belonging to Portland Safe, a business located south of the Site.

75. Private property owners with a dock and boat access to Presumpscot River.

76. Abandoned snow mobile in river at the southern end of the Site.

77. Image showing southern end of the Site.

78. Image showing typical conditions along transmission line.

79. Pile of disturbed earth (not recent). Tom Howard indicated it was likely from clearing along the transmission line.

80. Pile of disturbed earth similar to the one depicted in photo 31.

81. Image showing base of transmission line poles.

82. Image showing at the base of another pole.

83. Image typical of conditions along the Transmission line.

84. Image showing pile of debris that marks the southern extent of fill observed in the northern part of the Site.

85. Another view of Little Falls Landing from the north.

86. Nearby abandoned property to the northeast. 13 Depot Street, Former Westbrook Transmission.

87. Storage facility to the northeast on Depot Street.

88. Lumber company to the northeast on Depot Street.

89. Unidentified auto/equipment shop, north of the Site.

90. South Windham Public Library located southwest of the Site.

91. Adjacent residence to the south-southwest, 859 Gray Road.

92. Fire Department located west of the Site.

93. Gulf station at nearby rotary with several spill numbers associated with it. Gulf is west of the Site, 688 Gray Road.

94. Mallison Falls Mill just downstream from the Site to the south.

95. Image showing nearby Petro King facility, 20 Mosher Road, which has several spill numbers associated with it. Petro King is located southwest of the Site.

96. Image showing southern end of the Site, view facing northeast looking up transmission line.

APPENDICES 3 through 8 on CD

Appendix 3 – Interview Documentation
Appendix 4 – Legal Description
Appendix 5 – EDR Radius Report© with Geocheck®
Appendix 6 – Historical Documentation
Appendix 7 – Prior Reports
Appendix 8 – Other Supporting Documentation

USER STATEMENT AND
OWNER/OPERATOR STATEMENT
S.D. WARREN COMPANY
LITTLE FALLS DAM PARCEL
SEPTEMBER 2012

The "Subject Property" for purposes of this User Statement is described in and the subject of the Phase I Environmental Site Assessment prepared by TRC ("Phase I Report"). That Subject Property includes the hydro asset and associated parking lot, as well as the adjacent section of riverbed of the Presumpscot River.

The User is S.D. Warren Company doing business as Sappi Fine Paper North America (herein "User"). User has reviewed the final draft of that Phase I Report, and has consulted with employees and former employees familiar with the Subject Property.

(1) Knowledge of the Subject Property

User has knowledge of the environmental condition of Subject Property as supplied by use and inspection of the Subject Property (except that it has not inspected the riverbed) and User's review of the Phase I Report. User has considered all that information, and considered the obviousness of releases or threatened releases and the ability to detect contamination by appropriate investigation. Considering all information it is aware of, whether expressly noted above or not, User is not aware of any recognized environmental conditions on the Subject Property.

(2) User's "Specialized Knowledge" -- Expertise and Experience with Real Estate Transactions and Environmental Contamination

User is not a commercial broker of real estate, and does not regularly buy or sell property. User owns or leases, and occasionally buys and sells, property in connection with its need for property to operate its business. User owns and operates hydro facilities and paper mills, and addresses occasional accidental or historic releases in the course of its business, but is not in the business of detecting or remedying environmental contamination. The experience of User does not suggest to User that there are any recognized environmental conditions on the Subject Property.

(3) Purchase Price

User's experience and its general understanding of the value of hydro assets, indicate to User that the purchase price for the Subject Property in 1974 did not reflect any discount for environmental issues or possible undisclosed hazardous substance or petroleum releases.

(4) Environmental Liens

User's has consulted Pierce Atwood LLP to review the title files in its possession related to the Subject Property. Pierce Atwood LLP reports that the Title Search does not identify any

environmental liens of record against the Subject Property. In addition, User has no knowledge of any environmental liens that may apply to the Subject Property.

(5) Institutional Controls/Activity and Use Limitations

Pierce Atwood LLP reports that it is not aware of any institutional controls of record or recorded activity and use limitation for the Subject Property to limit exposure to hazardous substances or petroleum products. User has no separate knowledge of any institutional controls or activity and use limitations that may relate to the Subject Property.

USER STATEMENT AND
OWNER/OPERATOR STATEMENT
S.D. WARREN COMPANY
LITTLE FALLS TRANSMISSION LINE PARCEL
SEPTEMBER 2012

The "Subject Property" for purposes of this User Statement is described in and the subject of the Phase I Environmental Site Assessment prepared by TRC ("Phase I Report"). That Subject Property includes a transmission line, as well as the adjacent section of riverbed of the Presumpscot River.

The User is S.D. Warren Company doing business as Sappi Fine Paper North America (herein "User"). User has reviewed the final draft of that Phase I Report, and has consulted with employees and former employees familiar with the Subject Property.

(1) Knowledge of the Subject Property

User has knowledge of the environmental condition of Subject Property as supplied by use and inspection of the Subject Property (except that it has not inspected the riverbed) and User's review of the Phase I Report. User has considered all that information, and considered the obviousness of releases or threatened releases and the ability to detect contamination by appropriate investigation. Considering all information it is aware of, whether expressly noted above or not, User is aware of a recognized environmental condition on the Subject Property: test results of soils from 2010/2011 have indicated the presence of several metals (lead, iron, cobalt, manganese) and PCBs in an area at the north end of the Subject Property. User is also aware of debris on the Transmission Line parcel.

(2) User's "Specialized Knowledge" -- Expertise and Experience with Real Estate Transactions and Environmental Contamination

User is not a commercial broker of real estate, and does not regularly buy or sell property. User owns or leases, and occasionally buys and sells, property in connection with its need for property to operate its business. User owns and operates hydro facilities and paper mills, and addresses occasional accidental or historic releases in the course of its business, but is not in the business of detecting or remedying environmental contamination. The experience of User does not suggest to User that there are any recognized environmental conditions on the Subject Property except as noted in this User Statement.

(3) Purchase Price

User's experience and its general understanding of the value of hydro assets and related infrastructure, indicate to User that the purchase price for the Subject Property in 1974 did not reflect any discount for environmental issues or possible undisclosed hazardous substance or petroleum releases.

(4) Environmental Liens

User's has consulted Pierce Atwood LLP to review the title files in its possession related to the Subject Property. Pierce Atwood LLP reports that the Title Search does not identify any environmental liens of record against the Subject Property. In addition, User has no knowledge of any environmental liens that may apply to the Subject Property.

(5) Institutional Controls/Activity and Use Limitations

Pierce Atwood LLP reports that it is not aware of any institutional controls of record or recorded activity and use limitation for the Subject Property to limit exposure to hazardous substances or petroleum products. User has no separate knowledge of any institutional controls or activity and use limitations that may relate to the Subject Property.

LITTLE FALLS EMPLOYEE INTERVIEWS
April/May 2012

NOTE: TL = Transmission Line
SDW = S.D. Warren

Interviews conducted by Pierce Atwood LLP.

Dave L. Rolfe

Dave describes his SDW Work History as follows:

Started SDW 1963. Did electrical engineering, including high voltage distribution.
1966-67 Steam and electrical utilities were consolidated.
1967-70 Went to Muskegon, MI. Did paper mill install.
1970- Began project management and process control engineering.
1975 Went to Mobile, AL for one year.
1976 Was plant engineer, Westbrook.
1989/92 Went to Skowhegan, ME.
Then, SDW formed corporate engineering group, and I was in that.

1974 Acquisition Activities:

1. In 1974, SDW approached by L. Keddy for sale/purchase of 3 hydros. We had coordinated with him previously re river levels, as he operated on the river. Keddy had owned, sold and repurchased "Androscoggin Paper" mill (Keddy Mill). Burnell had also been owner of mill, making pipes. Grinnell had used to make pipe flanges.

2. L. Keddy was to make rebar, scrap melt, using induction furnaces.

3. Purchase involved: Scott Corporate, Tyler Peabody (legal). Local attorney, "Kap" Kaspar Cowan did title work; Roger Putnam (legal); Bob Blackborn, SDW chief engineer, would have been involved also.

4. I evaluated Little Falls hydro machinery and ability to connect with mill. I canoed and looked at shore line. Found sewer line coming from High St. school, Windham. Pipe under railroad tracks, across transmission line property. No subsoil investigations. I walked transmission line. Don't remember slag. Nothing unusual. I wouldn't have thought it unusual to see rubble, if I saw it. Keddy didn't tell us he used transmission line for dumping. The transmission line was installed and operating as of 1974. Transmission line property was treed, with about 30' clearance for OHU. PCBs didn't come up as

potential contamination issue. No manufacturing activities on transmission line property. Didn't observe debris in river.

6. As part of due diligence considered discharge to river – Keddy, from "office" at hydro, had discharge from toilets/sanitary plumbed to water turbine casing for maceration, that would have been directly dumped to river. Not sure it was ever used. SDW saw that and made sure SDW never used it. SDW didn't know of any contamination or chemicals on property pre-purchase.

After Purchase activities:

1. Probably didn't go on transmission line property after purchase; probably not on river either.

2. After SDW connected Mallison (probably 1976-1977), to Westbrook mill, I was no longer project engineer. No further visits after that.

3. I remember seeing piles of scrap metal at Keddy Mill after 1974.

4. Not likely any disposal after SDW purchased. No knowledge of disposal. Not aware of any spills, or releases or disposal after purchase in 1974.

   No environmental issues after we owned.

5. Not aware of any dredging of river. But in 1960s, Keddy had crane in river to rebuild Little Falls dam.

Bill Foley

Tom Howard says about Bill:

Bill is an electrical engineer. Became chief engineer. He was involved in hydros. Bill hired Tom Howard at SDW in 1987 or 1988 (Tom's job was a civil engineer). Bill would have been a higher level engineer.

Tom Howard tracked Bill down in Florida and spoke with him on 4/5/12. Bill's involvement in the purchase of the Keddy hydro was to look at the condition of the hydro units and the electrical side of the system (what was needed to get the power to the mill).

Tom says Bill could not remember changing anything on the transmission line from Little Falls to Mallison as the line was already there. The SDW/Westbrook mill

installed the step-up transformers to boost the voltage to 11,000 volts to transmit it to the SDW/Westbrook mill. These step-up transformers were the ones replaced a few years ago and per the insurance company had PCB's to prevent transformer fires.

Bill says:

1. On 1/2/68, I started as Electrical Engineer at SDW. Worked for 29 years. Retired as Chief Engineer on 2/1/97.

2. In 1968, mill had a senior guy who I worked for. SDW owned Sacarapa, Dundee in Gorham, Eel Wier Dams. Keddy owned the three middle dams: Little Falls/Central Falls; Mallison, and Gambo. Don't know when Little Falls was built.

3. I visited and inspected all three hydros before purchase. Water wheels and generators were in good condition but "protective system" was unbelievable: a rotary dial telephone with numbers dialed, except for last digit.

4. Keddy's three hydro facilities generated power for his mill. Crushed cars arrived on rail cars at Keddy Mill. He made rebar from the crushed cars after melting in his furnace. Believe he stopped manufacturing at Keddy Mill before or at the time of sale of hydros in 1974.

5. I automated the three hydros and connected them to Westbrook. I was at Little falls 2-4 times/week right after we bought it, for a couple of months. There was 2200 volt power from all 3 dams. We then built 11,000 volt step up transformer at Mallison to get power for Westbrook mill.

6. Don't recall seeing any activity at the Keddy Mill after our purchase of hydros.

7. Rolfe, McGregor and I did pre-purchase evaluation of 3 hydros assets and I didn't do anything on structural aspects of hydros, only electrical. [NOTE: McGregor disputes that he was involved in any pre-purchase evaluation.]

8. I walked the transmission line pre-purchase. I looked at poles and condition of poles. They were in okay condition. No mental picture of anything (e.g., junk, dumping) on transmission line property. There was junk on Keddy Mill property; building not in good repair. Don't believe any activities at Keddy Mill after we purchased. Disposal of anything would have happened before.

   We wouldn't have allowed dumping on transmission line property. Don't remember walking TL property after purchase.

9. No recollection of PCBs in relation to Little Falls hydro or TL, except changed PCBs out of SDW transformers. Transformer oil change out was transformers in hydro building. Don't remember seeing any transformers at Keddy Mill.

10. Don't remember any trespassers along TL property or at hydro.

11. Mill had "Line Crew" that patrolled TL regularly from Eel Wier to Mill.

12. McGregor might know how TL property line was selected. I don't know. He would also know about river condition/issues.

13. I would have noticed any significant dumping on TL property when I walked pre-purchase. No environmental issues came to my attention.

14. After purchase, I didn't visit Little Falls expect perhaps twice/year when visited all of them. Line crew visited regularly.

15. I knew of price paid by SDW and it was based on value of electricity. No discount for environmental issues.

John McGregor

Tom Howard says, about John:

Tom Howard identified John McGregor as the individual who may have done the Dam inspection.

John was involved in the original licensing of the dams (Little Falls 1981).

John was responsible for taking care of the dams prior to Tom Howard. Brad Goulet has since taken over that responsibility.

John says:

1. Started in April 1974 at SDW. I was hired to help with WWT plant construction in Westbrook. I was graduate civil engineer. Then became project engineer, working on various projects. In later 1970s, I began to assess condition of hydro stations on Presumpscot for renovation: rebuilding facilities and repair work. The projects needed FERC licensing and did initial licensing for hydro plants. Became a significant duty. Had outside help from attorneys and consultants (Kleinschmidt Associates, Pittsfield).

2. In dealing with power stations, I learned about dams. Other than licensing, I didn't do much work on Little Falls. SDW didn't do any significant work there – it was in good shape. Of all hydros, I know least about that one.

3. Remember visiting about dozen times. Little Falls and other mills were purchased from Keddy and his entities. I did not look at Little Falls pre-purchase.

4. When I went to Little Falls, I saw turbines and also the fancy modern apartment/office of Keddy. Don't remember visiting Keddy Mill. I visited dam and hydro property from the Gorham side. I don't remember inspecting or being on river bed or transmission line property. Probably visited hydro station last in 1980s.

5. I never saw Keddy Mill operating. Keddy Mill was dilapidated/run down in 1970s.

6. Don't know of dredging or sediment removal at Little Falls. I would have known about it if it occurred so don't think it occurred during my tenure.

Guy Labrecque

Tom Howard says, about Guy:

Guy was an electrician and became a supervisor. Guy worked his way up to salary ranks. He might have done actual inspection on hydros. He would have run a line crew.

Guy says:

1. I started at SDW in 1968 as electrician, but immediately went onto line crew. My Title was "Member Line Crew" for 18 years. Hydros had manpower, then hydros were to be automated, and we did that. We maintained power line and helped automate. We modernized. Solenoids were air operated or circuit breakers oil operated. Sometime after 1976, replaced PCB-oil. We kept log books and oil changes were logged.

   When we bought Keddy, SDW needed a 5 man line crew. I taught the others. In 1986, worked 6 months in Westbrook electrical shop. Then, in 1986/1987, became Electrical Foreman, supervising line crew. Then 13 years as supervisor of electrical. Retired December 1999. After 1999, I took year off.

2. One year later, 2001, I contacted mill and got contract to maintain this line (on the "Mallison circuit"). Had a contract until 2009. Last time I was there was 2009. Worked under contract with SDW for "hogging" the TL property. "Hogging" means I used brush cutter on back of garden tractor. It cuts brush.

Had someone moving glass, iron before my tractor got there so, didn't my tractor didn't get hurt. Last time we worked under contract was 2009.

3. I saw Keddy Mill operating. Chunks of steel were on pallets used to make rebar. I saw him smelting. Don't think he was running Keddy Mill at time of sale.

4. The TL goes from Little Falls hydro to a pole on the TL , goes south to Mallison (may have been single pole with double cross arm, or H frame, at south of Keddy Mill; then single poles down to Mallison, then to H frame at Mallison).

    a. There may have been a transformer on a pole on the Keddy Property, near the poles on TL property (perhaps 15 feet). That transformer wasn't on SDW/TL property. We didn't work on it. Wasn't our transformer. Wasn't energized. That transformer went into the Keddy mill.
    b. Don't recall any transformers on the SDW/TL property near the south end of Keddy mill.
    c. Can't recall seeing any transformer on the ground on Keddy Mill property, or any transformer pad between Keddy mill and river.

    After purchase we visited TL property for (1) maintenance, (2) cutting of brush for right of way, (3) poles were older but maybe 3 poles replaced every 10 years, (4) we were certified applicators, did spray ("Banbel" herbicide) but stopped doing that during or before 1980. We added a communication line (signal line) to Westbrook, in case there was a problem at any of the 6 dams.

5. Over 18 years when I was on the line crew, I visited 3-4 times/year. When I became supervisor, my line crew did that.

6. At/after acquisition, I remember seeing within 25 feet of each side of transmission line (50 feet total) junk iron, half-chimney with brick, bricks. Might have been some ash or tar-like material where no grass grew (might have been slag). Believe probably still there.

    I never disturbed those areas. Certain that nothing was put there after by Keddy or others along/on TL property. Was only hogging underbrush within right of ways.

    Don't know if there was any slag between right of way and river. Didn't see any slag there. In 1970s, there were lots of trees and vines between TL and river. In summer couldn't see water from TL. There was mature growth and undergrowth and vines beyond TL (e.g., between TL and river). No fern growth.

    No recollection of any PCB discussions in the 1970's.

7. Don't recall seeing dredging at Little Falls, but think SDW did some later.

8. On occasion, if generators failed, small amount of lubricating oil might have been lost to river. It would have been stated in the operating log. Remember that happened once, and some oil (not transformer fluid) would escape. Records are "station log" kept at Little Falls station.

Tom Howard

Tom says:

Tom was hired as a civil engineer by Bill Foley for SDW in 1987 or 1988. Now Environmental Manager for S.D. Warren for Westbrook and the hydro properties.

Tom took over responsibility for the dam from John McGregor before passing those responsibilities to Brad Goulet in mid 2000s.

Tom is not aware of any spills, or spill records, for the Little Falls dam property.

Hadn't walked transmission line before fall 2011. My duties were similar to Brad. My answers similar. Except I was in Keddy Mill once and heard water running in the basement (the river flowing through/underneath).

Brad Goulet

Tom Howard says, about Brad: Brad is the current Hydro Manager/Utilities Engineer.

Brad says:

1. About 2005, I did water wheel repairs and mechanical/reliability work. Started going out to Little Falls then.

2. Did Trash racks repair in 2005. Forebay fills up with sand. To repair trash racks, we put a Bobcat in forebay; sand was piled in parking lot. T. Howard arranged testing. Sand still there as of 4/30/12 [it was subsequently removed].

   Did sand removal twice, in subsequent years. Same procedure. Not aware of any removal downstream.

3. In 2010, I was asked to manage hydros -- includes site resp. building repairs, recreation, etc. Current role includes: budget for hydros (regulatory, improvements, capital). Crew works for Mark Fall; Fall reports to me.

4. Bypass gate facility replacement and repair occurred at Little Falls.

5. Went to transmission line property for first time in 2012, late winter, with T. Howard and R. Weeden. No inspection of river sediments.

6. There is "parking" sign for fishing access at Little Falls hydro parking lot but public doesn't seem to use it.

7. No spills, spill reporting as far as I know. But we did transformer testing for PCB contents.

8. A Security Firm is hired May to September to monitor the property. Probably only inspects parking lot. Jean Wheat hires them.

Drouin, Allison (S.Portland,ME-US)

From: Howard, Tom <Tom.Howard@sappi.com>
Sent: Friday, August 10, 2012 1:03 PM
To: Ken Gray (KGray@PierceAtwood.com); Springer, Charles (S.Portland,ME-US); Sullivan, Dave (Lowell,MA-US); O'Regan, Briana; Fitzgerald, Lawrence (Augusta,ME-US)
Subject: Little Falls Hydro lower level
Attachments: DSCN0087.ZIP; DSCN0088.ZIP; DSCN0089.ZIP; DSCN0090.ZIP; DSCN0091.ZIP; DSCN0092.ZIP; DSCN0093.ZIP; DSCN0094.ZIP; DSCN0095.ZIP; DSCN0096.ZIP; DSCN0097.ZIP; DSCN0098.ZIP; DSCN0099.ZIP; DSCN0100.ZIP; DSCN0101.ZIP; DSCN0102.ZIP; DSCN0103.ZIP; DSCN0104.ZIP; DSCN0105.ZIP; DSCN0106.ZIP; DSCN0107.ZIP; DSCN0108.ZIP; DSCN0109.ZIP; DSCN0110.ZIP; DSCN0111.ZIP; DSCN0112.ZIP; DSCN0113.ZIP; DSCN0114.ZIP; DSCN0115.ZIP

To all,

Attached are pictures of the lower level of Little Falls. There are duplicates of most pictures as I tried to make sure I got the ceiling and floor all around the room.

There is a furnace, a water pump and an air receiver tank in the room.
The furnace has an oil line going to it that looks like it used to come from the machine room (where the generators are) but is cut off before it leaves the room. There are no signs of any oil leakage or stains on the floor. Don Bernier was with me and he could not recall where the oil tank was and he said to his knowledge the furnace has not been run by Sappi.
The water pump is disconnected and the suction line does not leave the room.
The air receiver is disconnected with nothing going to or from it.
There is also a black plastic pipe on the floor that has a screen on one end and both ends are open and it is just laying on the floor.

Tom Howard
Environmental Manager
Sappi Fine Paper North America
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PO Box 5000
Westbrook, ME 04098-1597
(207) 856-4286 - Office
(207) 856-4010 - fax
tom.howard@sappi.com
www.sappi.com

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For more information please visit http://www.symanteccloud.com

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

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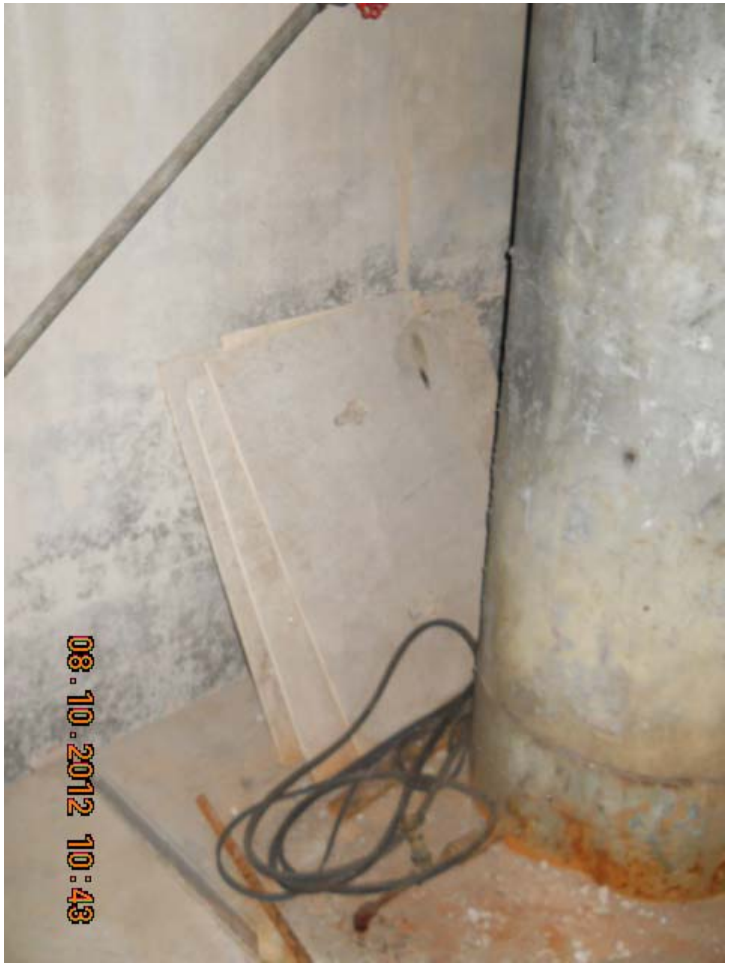
Little Falls Hydro Lower Level / furnace room



Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

Photos provided by Sappi
Little Falls Hydro Lower Level / furnace room

APPENDIX 4

Legal Description of the Site and Related Documentation

Assessor's Property Card Map 38, lot 10
Assessor's Property Card Map 3, Lot 8a
Assessor's property Card Map 111, Lots 91L
Windham Tax Map
Gorham Tax Map
Town of Windham Zoning Map
Town of Gorham Zoning Map
Gorham Interactive Map Showing Parcel
Purchase & Sale Agreement and Deed
Site Survey Plan

1 MAIN ST

MBLU :	38/ 10/ / /
Location:	1 MAIN ST
Owner Name:	WARREN S D CO
Account Number:	W3547R

SEARCH FOR SIMILAR SALE PROPERTIES

Parcel Value

Item	Assessed Value
Improvements	922,000
Land	117,700
Total:	**1,039,700**

Owner of Record

WARREN S D CO
PO BOX 5000
WESTBROOK, ME 04098

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
WARREN S D CO	3612/ 25	10/28/1994	
SCOTT PAPER CO	0/ 0		

Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
4400	IND LD DV

Land Line Valuation

Size	Zone	Assessed Value
0.73 AC	VC	117,700

Construction Detail

Item	Value
STYLE	Vacant Land

MODEL	Vacant

Building Valuation

Item	Value
Living Area	0 square feet
Replacement Cost	0
Year Built	
Depreciation	100%
Replacement Cost Less Depreciation	0

Outbuildings (click here for a list of codes and descriptions)

Code	Description	Units
	DAM	1

Extra Features (click here for a list of codes and descriptions)

Code	Description	Units
No Extra Building Features		

Building Sketch (click here for a list of codes and descriptions)

Vacant Land, No Sketch

Online Database for Windham, ME Powered by **Vision Appraisal Technology**

8 MALLISON FALLS RD

MBLU :	3/ 8/ A/ /
Location:	8 MALLISON FALLS RD
Owner Name:	WARREN S D CO
Account Number:	W3546R

SEARCH FOR SIMILAR SALE PROPERTIES

Parcel Value

Item	Assessed Value
Improvements	200,100
Land	39,700
Total:	**239,800**

Owner of Record

WARREN S D CO
PO BOX 5000
WESTBROOK, ME 04098

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
WARREN S D CO	3612/ 25	10/28/1994	
SCOTT PAPER CO	0/ 0		

Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
4400	IND LD DV

Land Line Valuation

Size	Zone	Assessed Value
8.00 AC	SZ	39,700

Construction Detail

Item	Value
STYLE	Vacant Land

MODEL	Vacant

Building Valuation

Item	Value
Living Area	0 square feet
Replacement Cost	0
Year Built	
Depreciation	100%
Replacement Cost Less Depreciation	0

Outbuildings (click here for a list of codes and descriptions)

Code	Description	Units
	DAM	1

Extra Features (click here for a list of codes and descriptions)

Code	Description	Units
No Extra Building Features		

Building Sketch (click here for a list of codes and descriptions)

Vacant Land, No Sketch

Online Database for Windham, ME Powered by **Vision Appraisal Technology**

GRAY ROAD

Map-Lot-Unit :	111/ 91L/ / /
Location:	GRAY ROAD
Owner Name:	SCOTT PAPER COMPANY
Account Number:	S1350R

SEARCH FOR SIMILAR SALE PROPERTIES

Parcel Value

Item	Assessed Value
Improvements	309,300
Land	194,900
Total:	**504,200**

Owner of Record

SCOTT PAPER COMPANY
C/O SD WARREN CO
BOX 5000, 89 CUMBERLAND ST
WESTBROOK, ME 04092

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
SCOTT PAPER COMPANY	3612/ 25	10/18/1974	

Land Line Valuation

Size	Zone	Assessed Value
2.50 AC	UR	194,900

Construction Detail

Item	Value
STYLE	Vacant Land
MODEL	Vacant

Building Valuation

Item	Value

Living Area	0 square feet
Replacement Cost	0
Year Built	
Depreciation	100%
Replacement Cost Less Depreciation	0

Outbuildings

Code	Description	Units
FA	FLAT AMOUNT	239800 UNITS

Extra Features

Code	Description	Units
No Extra Building Features		

Building Sketch

Vacant Land, No Sketch

Online Database for Gorham, ME Powered by **Vision Appraisal Technology**

TOWN OF WINDHAM

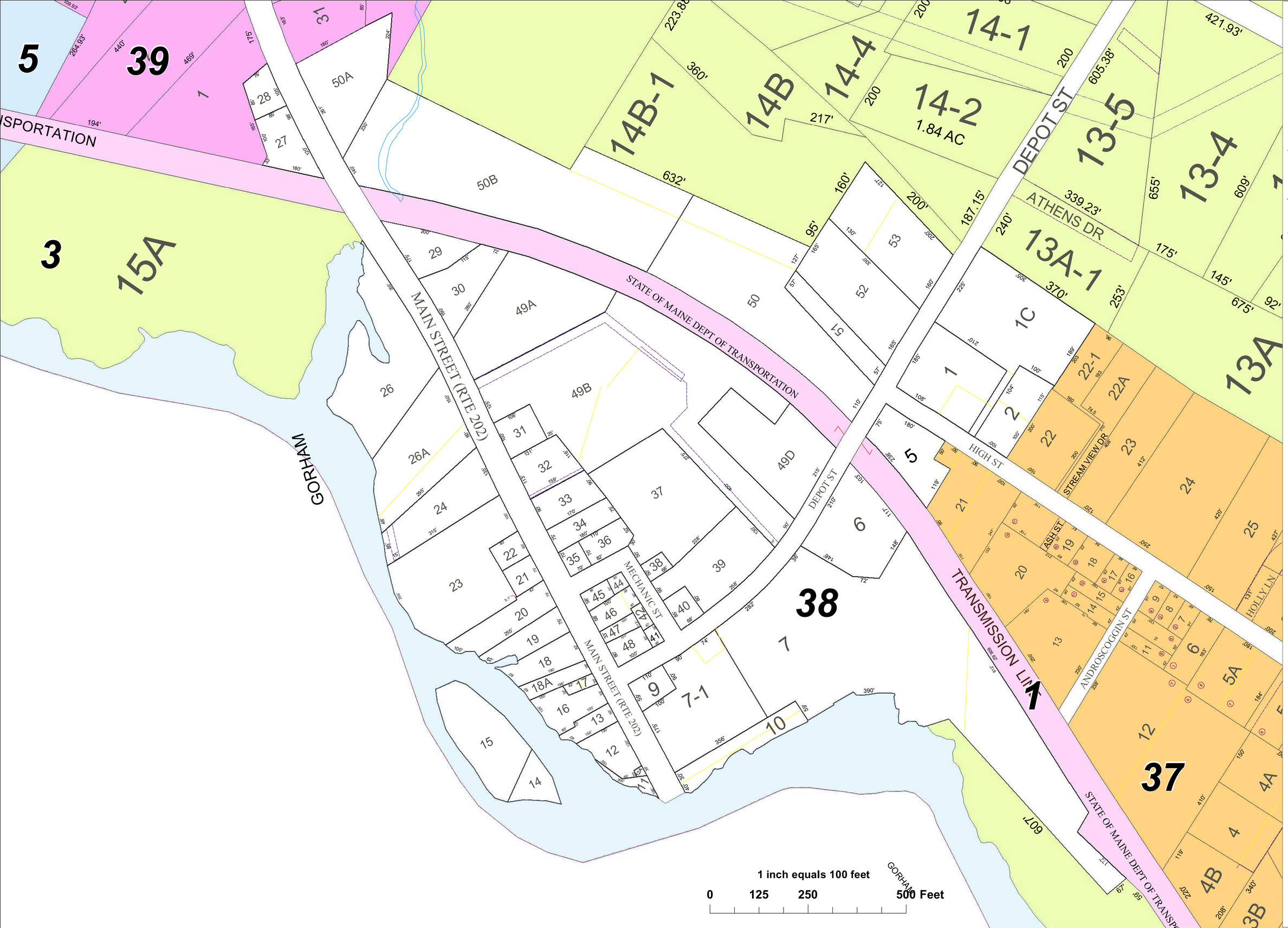
CUMBERLAND COUNTY, MAINE

2011 PROPERTY MAPS

THESE MAPS ARE FOR ASSESSMENT PURPOSES ONLY AND ARE NOT FOR CONVEYANCE.

Tax Maps are based on original maps compiled by James W. Sewall Co.

SOURCES:
Windham Assessor's Database
Maine Office of GIS
Prepared by:
Town of Windham GIS Department
Elisa Trepanier, GIS Technician
Completion Date: September 28, 2011



Legend

Miscellaneous Lines

- Building Footprint
- Building Footprint MDOT
- Cemetery
- Farmstead
- Hook
- Old Property Line
- ROW/Easement
- ROW/Easement/PWD
- Stream
- Subdivision Number
- TieLine
- Utility Line
- Vacated Subdivision
- Townline
- Lake/Pond
- Subject Map

Map 38

TOWN OF WINDHAM

CUMBERLAND COUNTY, MAINE

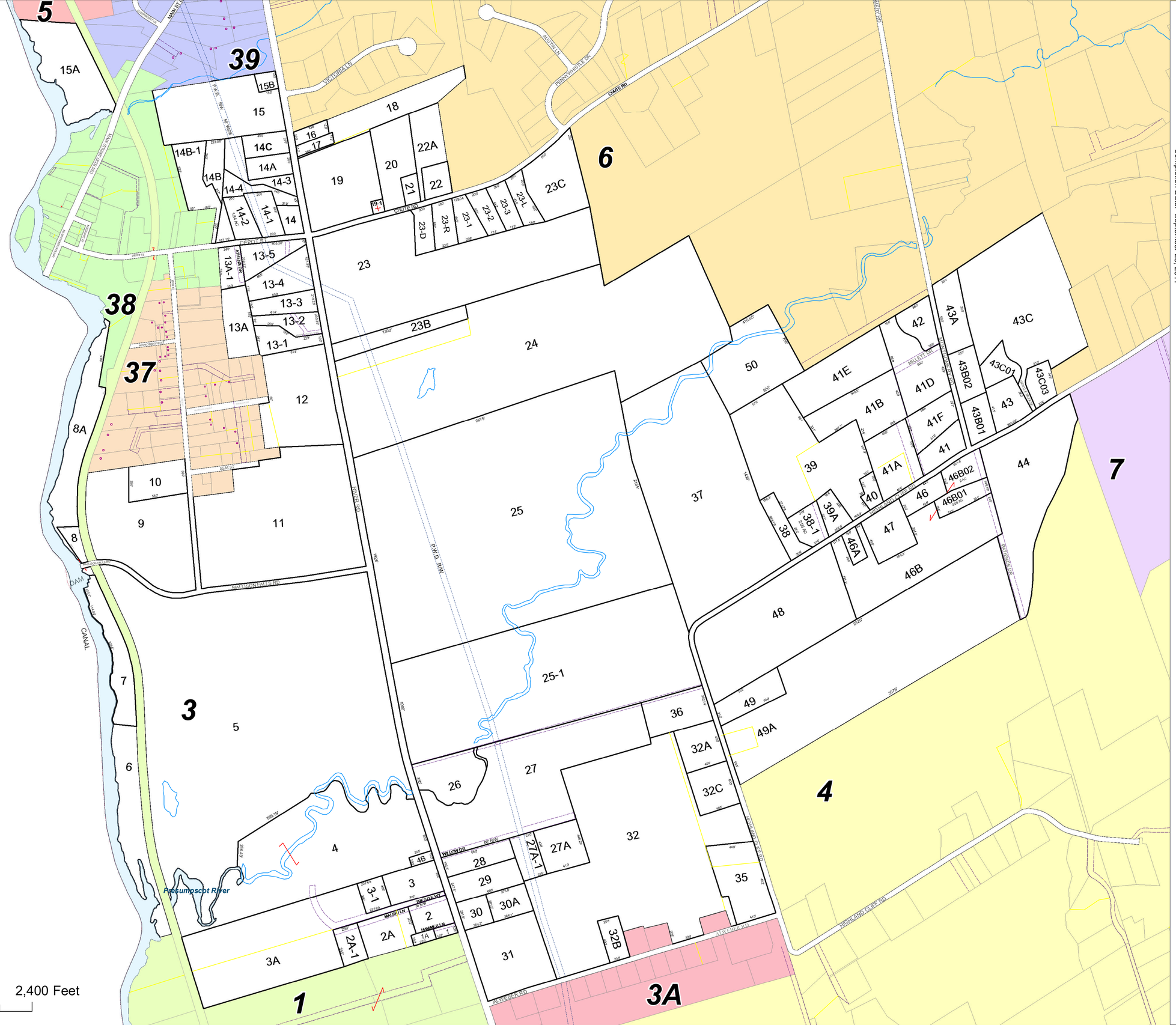
2011 PROPERTY MAPS

THESE MAPS ARE FOR ASSESSMENT PURPOSES ONLY AND ARE NOT FOR CONVEYANCE.

Tax Maps are based on original maps compiled by James W. Sewall Co.

SOURCES:
Windham Assessor's Database
Maine Office of GIS

Prepared by:
Town of Windham GIS Department
Elisa Trepanier, GIS Technician
Completion Date: September 28, 2011



1 inch equals 400 feet

0 600 1,200 2,400 Feet

Legend

- Subject Map
- Lake/Pond
- Abutting Towns

Miscellaneous Lines

- Building Footprint
- Building Footprint MDOT
- Cemetery
- Farmstead
- Hook
- Old Property Line
- ROW/Easement
- ROW/Easement/PWD
- Stream
- Subdivision Number
- TieLine
- Utility Line
- Vacated Subdivision

Map 3

TOWN OF GORHAM MAINE

Legend

- Public Water Supply
- Easement/ ROW
- Common Owner (Hook)
- Stream

N

2010

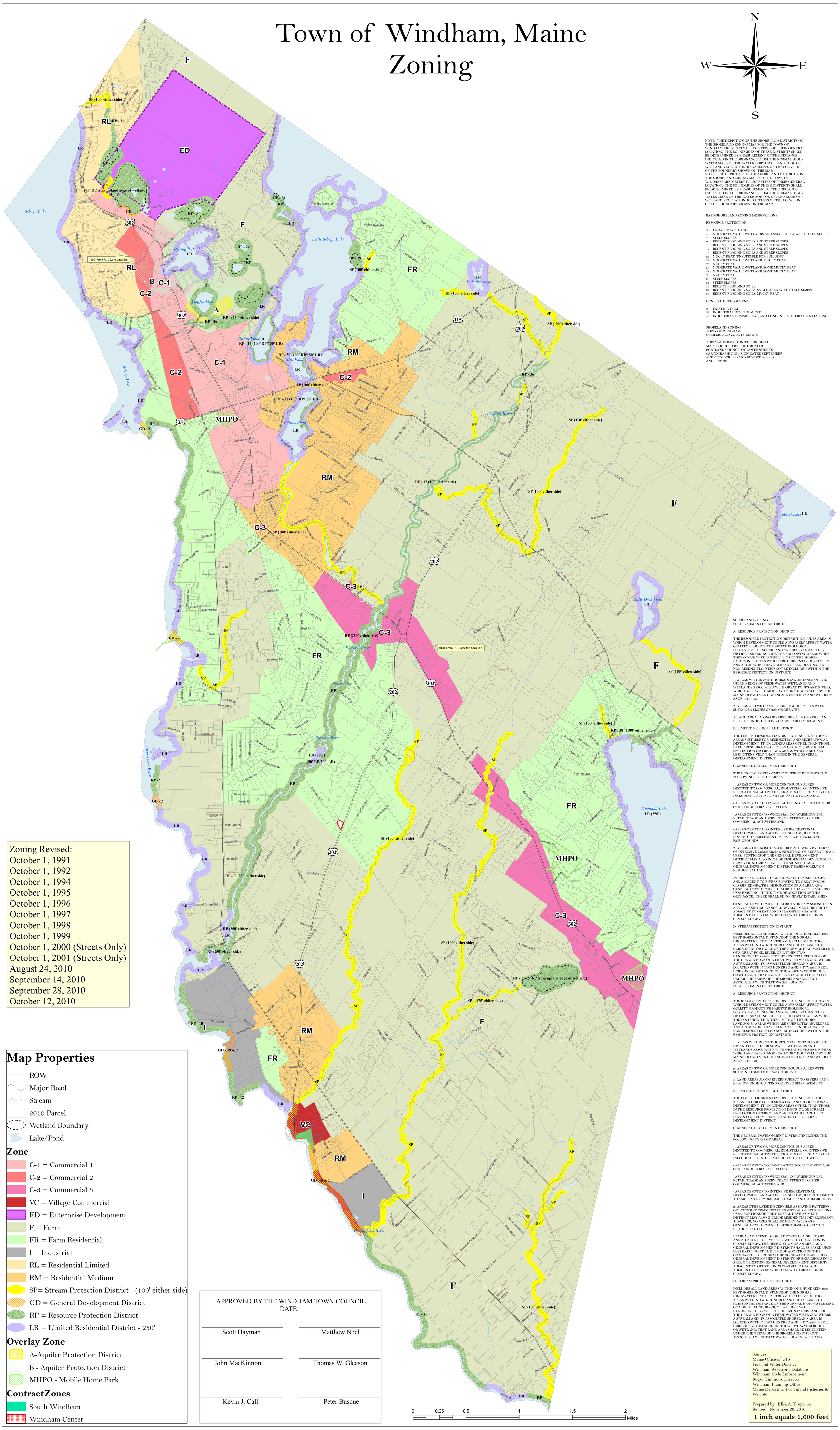
Map: 111

For Assessing Purposes Only

Printed: Summer 2010

Scale: 1 inch = 150 feet

Town of Windham, Maine
Zoning



Zoning Revised:
October 1, 1991
October 1, 1992
October 1, 1994
October 1, 1995
October 1, 1996
October 1, 1997
October 1, 1998
October 1, 1999
October 1, 2000 (Streets Only)
October 1, 2001 (Streets Only)
August 24, 2010
September 14, 2010
September 28, 2010
October 12, 2010

Map Properties

- ROW
- Major Road
- Stream
- 2010 Parcel
- Wetland Boundary
- Lake/Pond

Zone

- C-1 = Commercial 1
- C-2 = Commercial 2
- C-3 = Commercial 3
- VC = Village Commercial
- ED = Enterprise Development
- F = Farm
- FR = Farm Residential
- I = Industrial
- RL = Residential Limited
- RM = Residential Medium
- SP= Stream Protection District - (100' either side)
- GD = General Development District
- RP = Resource Protection District
- LR = Limited Residential District - 250'

Overlay Zone

- A-Aquifer Protection District
- B - Aquifer Protection District
- MHPO - Mobile Home Park

ContractZones

- South Windham
- Windham Center

APPROVED BY THE WINDHAM TOWN COUNCIL
DATE:

Scott Hayman	Matthew Noel
John MacKinnon	Thomas W. Gleason
Kevin J. Call	Peter Busque

0 0.25 0.5 1 1.5 2 Miles

NOTE: THE DEPICTION OF THE SHORELAND DISTRICTS ON THE SHORELAND ZONING MAP FOR THE TOWN OF WINDHAM ARE MERELY ILLUSTRATIVE OF THEIR GENERAL LOCATION. THE BOUNDARIES OF THESE DISTRICTS SHALL BE DETERMINED BY MEASUREMENT OF THE DISTANCE INDICATED IN THE ORDINANCE FROM THE NORMAL HIGH-WATER MARK OF THE WATER BODY OR UPLAND EDGE OF WETLAND VEGETATION, REGARDLESS OF THE LOCATION OF THE BOUNDARY SHOWN ON THE MAP.

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BASIS-SHORELAND ZONING DESIGNATIONS

RESOURCE PROTECTION

3 UNRATED WETLAND
4 MODERATE VALUE WETLANDS AND SMALL AREA WITH STEEP SLOPES
7 STEEP SLOPES
9 RECENT FLOODING SOILS AND STEEP SLOPES
10 RECENT FLOODING SOILS AND STEEP SLOPES
12 RECENT FLOODING SOILS AND STEEP SLOPES
15 RECENT FLOODING SOILS AND STEEP SLOPES
21 MUCKY PEAT (UNSUITABLE FOR BUILDING)
24 MODERATE VALUE WETLAND, MUCKY PEAT
26 MUCKY PEAT
27 MODERATE VALUE WETLAND, SOME MUCKY PEAT
28 MODERATE VALUE WETLAND, SOME MUCKY PEAT
29 MUCKY PEAT
30 STEEP SLOPES
31 STEEP SLOPES
36 RECENT FLOODING SOILS
37 RECENT FLOODING SOILS, SMALL AREA WITH STEEP SLOPES
38 RECENT FLOODING SOILS, MUCKY PEAT

GENERAL DEVELOPMENT

2 EXISTING DAM
39 INDUSTRIAL DEVELOPMENT
40 INDUSTRIAL, COMMERCIAL, AND CONCENTRATED RESIDENTIAL USE

SHORELAND ZONING
TOWN OF WINDHAM
CUMBERLAND COUNTY, MAINE

THIS MAP IS BASED ON THE ORIGINAL MAP PRODUCED BY THE GREATER PORTLAND COUNCIL OF GOVERNMENTS CARTOGRAPHIC DIVISION DATED SEPTEMBER AND OCTOBER 1993 AND REVISED 9/22/95 AND 10/26/95

SHORELAND ZONING
ESTABLISHMENT OF DISTRICTS

A. RESOURCE PROTECTION DISTRICT

THE RESOURCE PROTECTION DISTRICT INCLUDES AREA IN WHICH DEVELOPMENT COULD ADVERSELY AFFECT WATER QUALITY, PRODUCTIVE HABITAT, BIOLOGICAL ECOSYSTEMS, OR SCENIC AND NATURAL VALUES. THIS DISTRICT SHALL INCLUDE THE FOLLOWING AREAS WHEN THEY OCCUR WITHIN THE LIMITS OF THE SHORE-LAND ZONE. AREAS WHICH ARE CURRENTLY DEVELOPED, AND AREAS WHICH HAVE ALREADY BEEN DESIGNATED NON-RESIDENTIAL NEED NOT BE INCLUDED WITHIN THE RESOURCE PROTECTION DISTRICT.

1. AREAS WITHIN 250FT HORIZONTAL DISTANCE OF THE UPLAND EDGE OF FRESHWATER WETLANDS AND WETLANDS ASSOCIATED WITH GREAT PONDS AND RIVERS, WHICH ARE RATED "MODERATE" OR "HIGH" VALUE BY THE MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE AS OF 1/1/1973.

2. AREAS OF TWO OR MORE CONTIGUOUS ACRES WITH SUSTAINED SLOPES OF 20% OR GREATER.

3. LAND AREAS ALONG RIVERS SUBJECT TO SEVERE BANK EROSION, UNDERCUTTING OR RIVER BED MOVEMENT.

B. LIMITED RESIDENTIAL DISTRICT

THE LIMITED RESIDENTIAL DISTRICT INCLUDES THOSE AREAS SUITABLE FOR RESIDENTIAL AND RECREATIONAL DEVELOPMENT. IT INCLUDES AREAS OTHER THAN THOSE IN THE RESOURCE PROTECTION DISTRICT, OR STREAM PROTECTION DISTRICT AND AREAS WHICH ARE USED LESS INTENSIVELY THAN THOSE IN THE GENERAL DEVELOPMENT DISTRICT.

C. GENERAL DEVELOPMENT DISTRICT

THE GENERAL DEVELOPMENT DISTRICT INCLUDES THE FOLLOWING TYPES OF AREAS:

1. AREAS OF TWO OR MORE CONTIGUOUS ACRES DEVOTED TO COMMERCIAL, INDUSTRIAL, OR INTENSIVE RECREATIONAL ACTIVITIES, OR A MIX OF SUCH ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- AREAS DEVOTED TO MANUFACTURING, FABRICATION, OR OTHER INDUSTRIAL ACTIVITIES;

- AREAS DEVOTED TO WHOLESALING, WAREHOUSING, RETAIL TRADE AND SERVICE ACTIVITIES OR OTHER COMMERCIAL ACTIVITIES AND

- AREAS DEVOTED TO INTENSIVE RECREATIONAL DEVELOPMENT AND ACTIVITIES SUCH AS, BUT NOT LIMITED TO AMUSEMENT PARKS, RACE TRACKS AND FAIR-GROUNDS.

2. AREAS OTHERWISE DISCERNIBLE AS HAVING PATTERNS OF INTENSIVE COMMERCIAL INDUSTRIAL OR RECREATIONAL USES. PORTIONS OF THE GENERAL DEVELOPMENT DISTRICT MAY ALSO INCLUDE RESIDENTIAL DEVELOPMENT. HOWEVER, NO AREA SHALL BE DESIGNATED AS A GENERAL DEVELOPMENT DISTRICT BASED SOLELY ON RESIDENTIAL USE.

IN AREAS ADJACENT TO GREAT PONDS CLASSIFIED GPA AND ADJACENT TO RIVERS FLOWING TO GREAT PONDS CLASSIFIED GPA, THE DESIGNATION OF AN AREA AS A GENERAL DEVELOPMENT DISTRICT SHALL BE BASED UPON USES EXISTING AT THE TIME OF ADOPTION OF THIS ORDINANCE. THERE SHALL BE NO NEWLY ESTABLISHED

GENERAL DEVELOPMENT DISTRICTS OR EXPANSIONS IN AN AREA OF EXISTING GENERAL DEVELOPMENT DISTRICTS ADJACENT TO GREAT PONDS CLASSIFIED GPA, AND ADJACENT TO RIVERS WHICH FLOW TO GREAT PONDS CLASSIFIED GPA.

D. STREAM PROTECTION DISTRICT

INCLUDES ALL LAND AREAS WITHIN ONE HUNDRED (100) FEET HORIZONTAL DISTANCE OF THE NORMAL HIGH-WATER LINE OF A STREAM, EXCLUSIVE OF THOSE AREAS WITHIN TWO-HUNDRED AND FIFTY (250) FEET HORIZONTAL DISTANCE OF THE NORMAL HIGH-WATER LINE OF A GREAT POND, RIVER, OR WITHIN TWO HUNDRED-FIFTY (250) FEET, HORIZONTAL DISTANCE OF THE UPLAND EDGE OF A FRESHWATER WETLAND. WHERE A STREAM AND ITS ASSOCIATED SHORELAND AREA IS LOCATED WITHIN TWO HUNDRED AND FIFTY (250) FEET, HORIZONTAL DISTANCE OF THE ABOVE WATER BODIES OR WETLAND, THAT LAND AREA SHALL BE REGULATED UNDER THE TERMS OF THE SHORELAND DISTRICT ASSOCIATED WITH THAT WATER BODY OR ESTABLISHMENT OF DISTRICTS

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Sources:
Maine Office of GIS
Portland Water District
Windham Assessor's Database
Windham Code Enforcement
Roger Timmons, Director
Windham Planning Office
Maine Department of Inland Fisheries & Wildlife

Prepared by: Elisa A. Trepanier
Revised: November 29, 2010

1 inch equals 1,000 feet

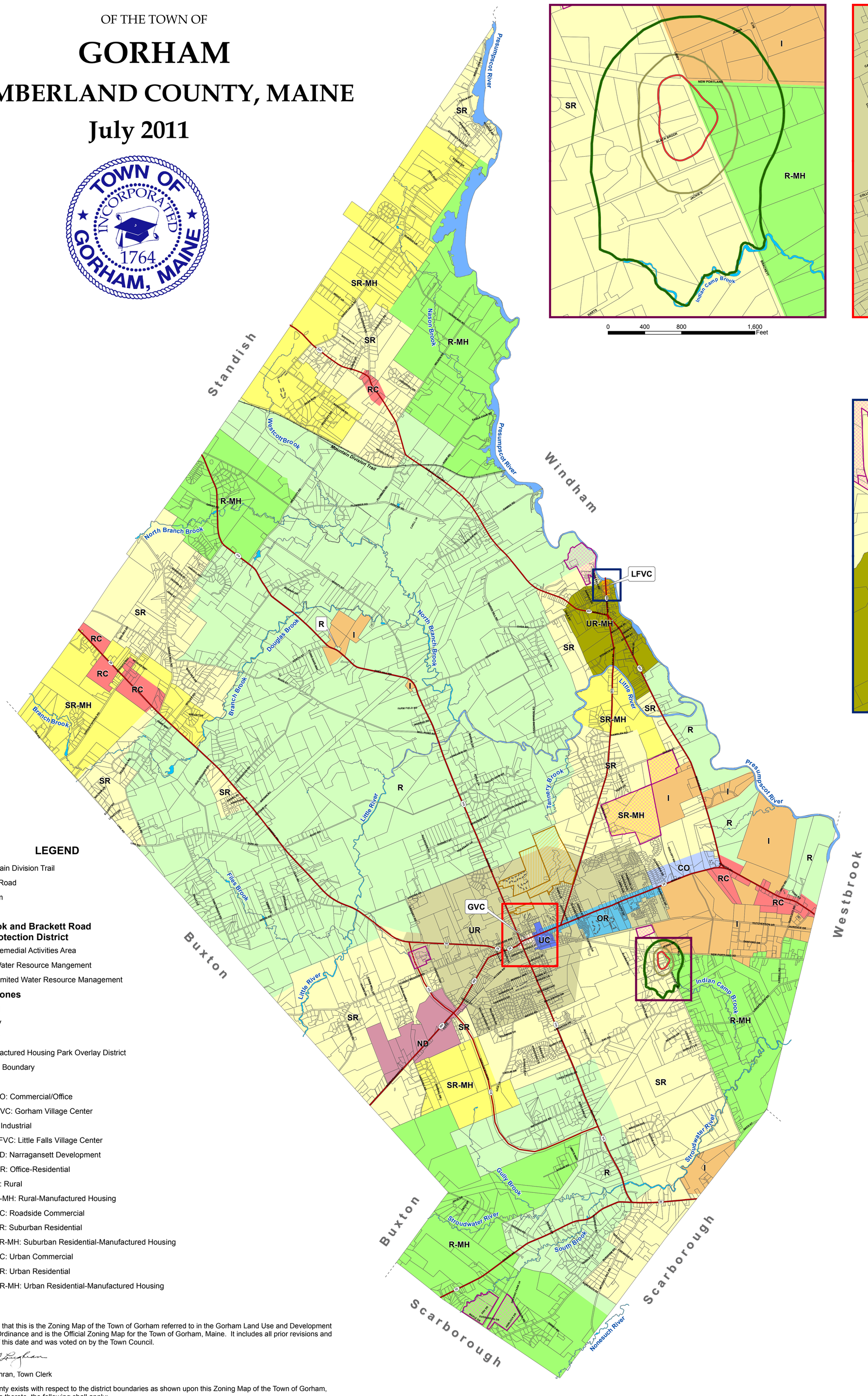
ZONING MAP

OF THE TOWN OF

GORHAM

CUMBERLAND COUNTY, MAINE

July 2011



LEGEND

- Mountain Division Trail
- State Road
- Stream
- River

Black Brook and Brackett Road Special Protection District

- Remedial Activities Area
- Water Resource Mangement
- Limited Water Resource Management

Contract Zones

- III
- IV
- V

- Manufactured Housing Park Overlay District
- Parcel Boundary

Zoning

- CO: Commercial/Office
- GVC: Gorham Village Center
- I: Industrial
- LFVC: Little Falls Village Center
- ND: Narragansett Development
- OR: Office-Residential
- R: Rural
- R-MH: Rural-Manufactured Housing
- RC: Roadside Commercial
- SR: Suburban Residential
- SR-MH: Suburban Residential-Manufactured Housing
- UC: Urban Commercial
- UR: Urban Residential
- UR-MH: Urban Residential-Manufactured Housing

I hereby certify that this is the Zoning Map of the Town of Gorham referred to in the Gorham Land Use and Development Code Zoning Ordinance and is the Official Zoning Map for the Town of Gorham, Maine. It includes all prior revisions and is current as of this date and was voted on by the Town Council.

Cornelia Loughran, Town Clerk

When uncertainty exists with respect to the district boundaries as shown upon this Zoning Map of the Town of Gorham, or amendments thereto, the following shall apply:

1) Unless otherwise indicated, district boundary lines are the center lines, plotted at the time of adoption of the Code, of streets, alleys, parkways, waterways, or rights-of-way of public utilities and railroads or such lines extended.

2) Other district boundary lines which are not listed in the preceding paragraph shall be considered as lines paralleling a street and at distances from the center lines of such streets as indicated by the official Zoning Maps on file in the Gorham Municipal Office. In the absence of a written dimension, the graphic scale on the official Zoning Maps shall be used.

Adopted by the Gorham Town Council and effective this July 5th 2011.

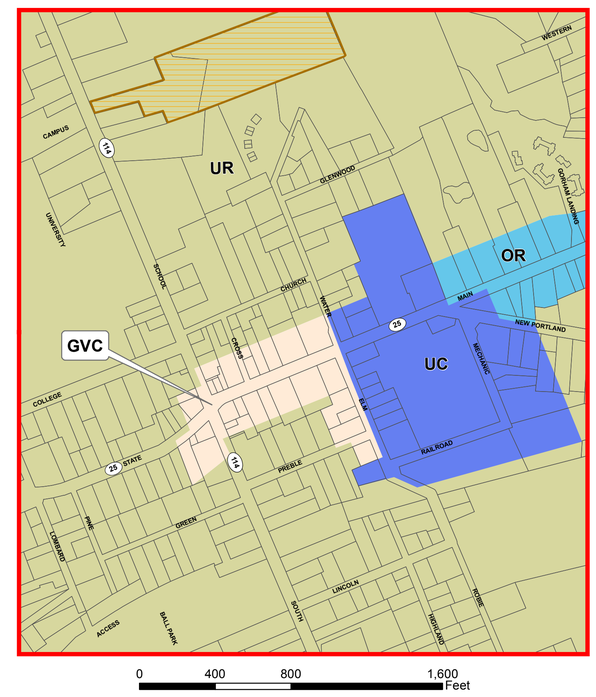
1 inch = 2,000 feet

0 2,000 4,000 8,000 12,000 16,000 Feet

Black Brook and Brackett Road Special Protection District

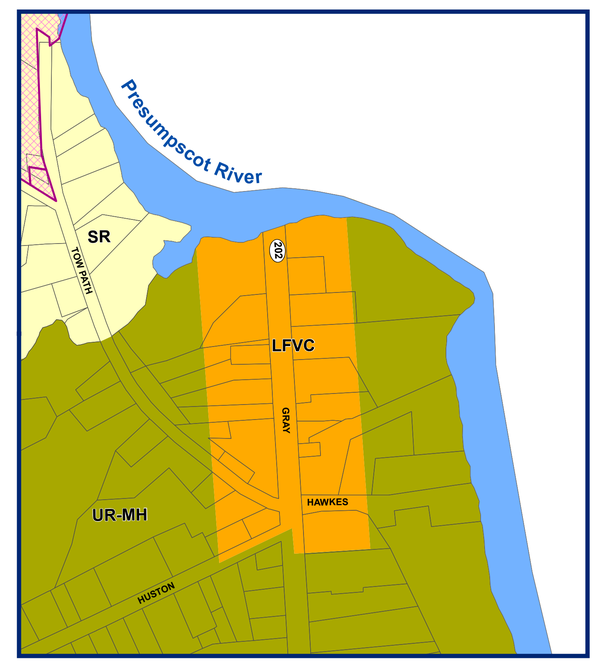
0 400 800 1,600 Feet

Gorham Village Center



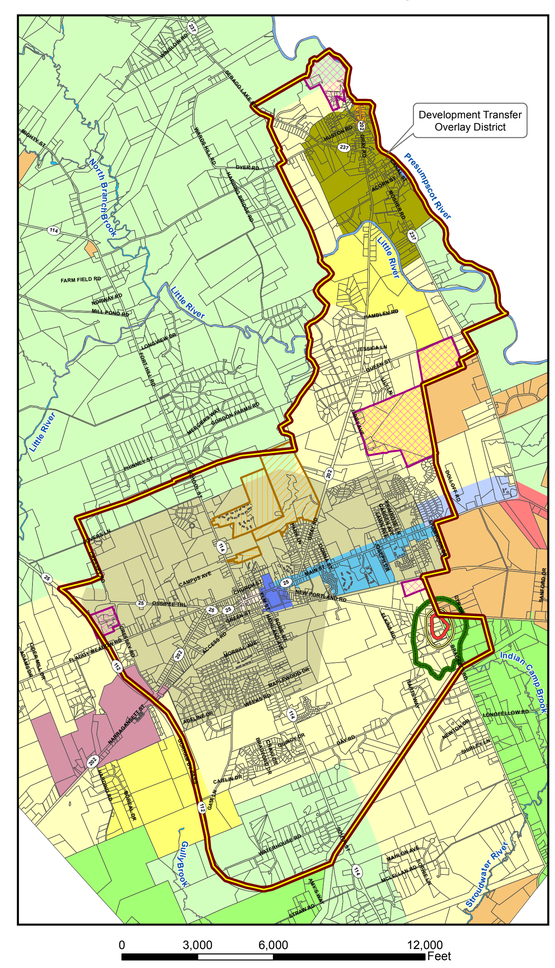
0 400 800 1,600 Feet

Little Falls Village Center



0 200 400 800 Feet

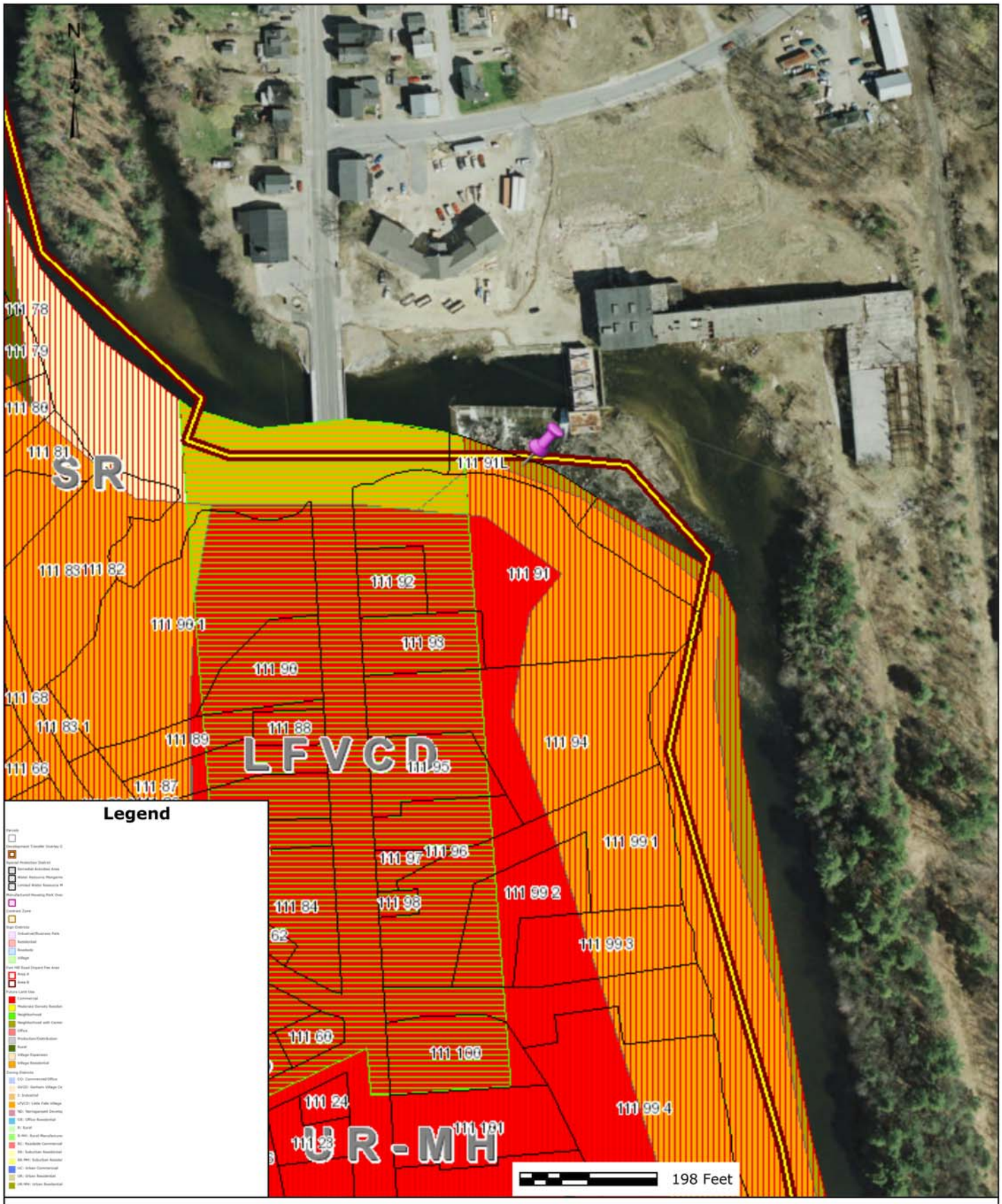
Development Transfer Overlay District



0 3,000 6,000 12,000 Feet

WOODARD & CURRAN

May 2011



Zoning and Parcel ID 111-91L

Town of Gorham, Maine

This information has been compiled from various public and private sources. While every attempt has been made to provide accurate information, neither the municipality nor the service host guarantee the accuracy of information provided herein.

MALLISON CORPORATION, COMMERCIAL CHEMICAL CORPORATION,
AND LAWRENCE J. KEDDY

TO

S. D. WARREN, A DIVISION OF SCOTT PAPER COMPANY

SUMMARY

Mallison Corporation		
Land	$ 5,000.00	
Buildings	80,000.00	
Dams and Associated Structures	75,000.00	
Machinery and Electrical Equipment	75,000.00	
TOTAL		$ 235,000.00
Commercial Chemical Corporation		
Land	5,000.00	
Buildings	270,000.00	
Dams and Associated Structures	225,000.00	
Machinery and Electrical Equipment	200,000.00	
TOTAL		700,000.00
Lawrence J. Keddy, Central Falls		
Land	10,000.00	
Buildings	500,000.00	
Dams and Associated Structures	75,000.00	
Machinery and Electrical Equipment	200,000.00	
TOTAL		785,000.00
		$1,720,000.00

MALLISON CORPORATION

LAND

Acreage as per deed	$ 5,000.00

BUILDINGS

Substructure, 51' x 35', and two draft tubes	
Two turbine rooms, 31' 9" x 18'	
Main generator room floor, 51'6" x 31'9"	
One battery room, 15' x 8'	80,000.00

DAMS AND ASSOCIATED STRUCTURES

Forebay enclosure, 55' x 19'	
Forebay, 55' x 15'	
Trash racks, 40'	
Sluice trough with sluice, 49' x 14" x 10"	
Canal, 675', with five head gates and one waste gate	
Four turbine-room steel gates with stainless steel wheels, axles, and guides	
One dam, 152'	75,000.00

MACHINERY AND ELECTRICAL EQUIPMENT

Two S. Morgan Smith vertical turbines
Name Plate Rating
HP 715
Head 19'
RPM 128

Two G. E. vertical generators (roller bearing)
Name Plate Rating
KVA 625
Volts 600
Phase 3
Frequency 60
RPM 128

Exciter
Motor
600 volt
100 HP
720 RPM
Generator
125 volt
600 amp
720 RPM

One panel board of eight sections		
Two Lombard hydraulic governors		
Two automatic float controls		
One automatic voltage regulator		
Two 4-ton chain hoists		
Three 333 KVA transformers Pri 11500 Sec 575		
One D. C. operated high voltage main switch		
Sixty cells of batteries		
One automatic battery charger		
One horngap switch		
One substation, 23' x 18' (lightning arresters, fuse disconnects, P.T. and C.T.)		
Transmission line, approximately 2 miles long with poles, insulators, and conductors (Mallison to Commercial Chemical Corporation)		
Transmission line, approximately 5 miles long (Mallison to Westbrook)	75,000.00	
TOTAL		$235,000.

COMMERCIAL CHEMICAL CORPORATION

LAND

Acreage as per deed	$ 5,000.00

BUILDINGS

Basement governor room, 44' x 19' 33'6" overhead crane track	
Main Floor governor and compressor rooms 1. 27'4" x 19' 2. 16'2" x 19' 3. 19'7" x 19'	
Substructure and draft tube room, 77'4" x 25'5", with two draft tubes	
Turbine room, 75' x 24'	
Main generating room, 77'4" x 25'5" with overhead crane rails, 90'7"	
Main workroom, 88'6" x 38'	
Brick building, 24' x 11'	
Brick and steel building 24' x 48'	
Substation, 20' x 17', with accessories (lightning arresters, fuse dis- connects, etc.)	270,000.00

DAMS AND ASSOCIATED STRUCTURES

Forebay, 77'4" x 20'	
Trash racks, 73'	
Trash rack sluice, 75' x 27" x 17"	
Canal, 737', with three steel head gates (stainless steel wheels and axles) and two maintenance gates	
Overflowing concrete dam, 250'	225,000.00

MACHINERY AND ELECTRICAL EQUIPMENT

Air compressor motor and tank

Two governor oil tanks (not installed)

Two Allis-Chalmers vertical turbines
Name Plate Rating
1000 KW
90 RPM

Exciter
- Motor
  - 2300 volt
  - 185 HP
- Generator
  - 125 volt
  - 1000 amp

Automatic compensating starter
- Cutler-Hammer motor control

Two vertical Allis-Chalmers generators (roller bearing)
- Name Plate Rating
  - Volts 2300
  - Amps 277
  - Phase 3
  - Frequency 60
  - RPM 90

Two hydraulic governors (not installed)

Two electric-motor-operated turbine regulators

One main panel board (for both generators)

Two hand-operated, overhead cranes, each with hand-operated 10-ton gear trolley; and one 8-ton and one 10-ton hand-operated chain hoists

Three transformers
- KVA 37.5
- Pri 2400 - 4160Y
- Sec 120 - 240

One substation transformer
- KVA 2500
- Pri 13800
- Sec LV 2400 $ 200,000.00

TOTAL $ 700,00

CENTRAL FALLS

LAND

Acreage as per deed	$ 10,000.00

BUILDINGS

Substructure and four draft tubes, 94' x 33'	
Four turbine rooms, each 21' x 15'	
Main generating floor, 88'7" x 22'8" with 88'4" of crane track	
Basement compressor room, 20' x 16'	
Main floor of the office building, 41'7" x 25', excluding office equipment and furnishings	
Upstairs meeting rooms, 42' x 25', with refrigerator, oven, stove, dishwasher, fireplace, and wood hoist	500,000.00

DAMS AND ASSOCIATED STRUCTURES

Forebay, 60' x 11'	
Trash racks, 76'6"	
Trash rack sluice, 79'2" x 14" x 12"	
Overflowing concrete dam, 159'	
Three steel sluice gates	
Seven turbine room steel gates with stainless steel wheels and axles	75,000.00

MACHINERY AND ELECTRICAL EQUIPMENT

Four turbines, vertical, 36" Z
Type R. H.

Four Electric Machine Co. generators
Name Plate Rating
KVA 500
Volt 2300
Phase 3
Frequency 60
RPM 180

Four air-operated turbine regulators

Two double generator panel boards

One main panel board

One exciter
- Motor
  - 2400 volt
  - 60 HP
  - 720 RPM
- Generator
  - 125 volt
  - 320 amp
  - 720 RPM

Two underhung hand-operated cranes, each with two 3-ton trolly-type chain hoists

Air compressor with motor and air tank
Ingersoll-Rand, Type 30, Model No. 253 D5, size 5 x 3 x 3 1/2

Air compressor with motor and two air tanks

One hot-air, oil-fired heater
Thatcher Furnace, Model LHO 224

One oil storage tank, 275 gal.

Three 333 KVA transformers
- Phase 3
- Frequency 60
- Sec 2400

$ 200,000.00

TOTAL $ 785,000.00

KNOW ALL MEN BY THESE PRESENTS,

THAT, I, LAWRENCE J. KEDDY of Portsmouth in the County of Rockingham and State of New Hampshire, in consideration of One Dollar ($1.00) and other valuable consideration paid by SCOTT PAPER COMPANY (S. D. WARREN DIVISION), a Corporation organized and existing under the laws of the Commonwealth of Pennsylvania and having a place of business at 89 Cumberland Street in the City of Westbrook, County of Cumberland and State of Maine, the receipt whereof, I do herby Acknowledge, do hereby Remise, Release, Bargain, Sell and Convey and forever Quit-Claim unto the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever, premises, rights and easements located in the Towns of Windham and Gorham in the County of Cumberland and State of Maine hereafter described:

First:

A certain lot or parcel of land with the buildings thereon and with part of the dam thereon situated at Little Falls in that part of the Town of Windham known as South Windham on the easterly side of Main Street, formerly known as the Old Gray Road and now designated State Route 202 and bounded and described as follows: (courses based on true meridian)

Beginning at a point on the easterly side of said Main Street at the southwest corner of the parcel of land formerly of Keddy Manufacturing Company, conveyed to Lawrence J. Keddy by deed of Park Corporation dated May 9, 1974 and recorded in the Cumberland County Registry of Deeds in Book 3545, Page 141, which point is further described as being one hundred seventy-five (175) feet southerly of the southwest corner of land now or formerly of Robert Miele et al; and which point is further described as being one hundred seventy-two and fifty-seven hundredths (172.57) feet southerly of the monument with the iron pin located on the easterly side of Main Street near the corner of said Miele lot.

Thence North 87° 13' East by line of said land formerly of Keddy Manufacturing Company three hundred fifty-five and eighty-three hundredths feet (355.83) feet, more or less, on a course which intersects the face of the westerly foundation of the main factory building on the land so conveyed by Park Corporation to said Keddy at a right angle thereto, at a point marked by a drill hole set;

Thence South 2° 47' East along the said face of the westerly foundation fifty-eight and seventy-four hundredths (58.74) feet to a corner of said foundation;

Thence North 87° 30' East by the face of the southerly foundation of said building a distance of thirty-four and seventy-two hundredths (34.72) feet to a point distant twenty-five (25) feet northeasterly from the center of the 12,000 volt electric transmission line which runs southeasterly from a point near said corner of said foundation;

Thence running twenty-five (25) feet distant northeasterly from and parallel with said center of said electric pole line South 57° 44' 10" East by another portion of the land conveyed to said Keddy by deed of Atlantic Mills, Inc. dated October 30, 1961 and recorded in said Registry of Deeds in Book 2641, Page 44, a distance of three hundred eighty-nine and sixty hundredths (389.60) feet, more or less, to a corner wholly within said parcel conveyed by said Park Corporation to said Keddy which corner is at the intersection of the lines parallel with and twenty-five feet (25) distant northeasterly and easterly of the existing transmission line running between the generating stations at Little Falls and Mallison Falls;

Thence on a course of South 11° 08' 30" East a distance of seventy and sixty-three hundredths (70.63) feet, more or less, to line of land conveyed to said Keddy by said deed of Atlantic Mills, Inc.;

Thence on the same course one hundred twenty-seven and 50/100 (127.50) feet, more or less, to the line of land conveyed to Mallison Corporation by deed of Cumberland Securities Corporation dated May 25, 1955 and recorded in said Registry of Deeds in Book 2232, Page 46;

Thence by line of said Mallison Corporation land westerly to the thread of the Presumpscot River;

Thence by the thread of the River northerly and westerly to a point in the southerly extension of the easterly side line of said Main Street; Thence northerly by said extension and by the easterly side line of Main Street to the point of beginning; including herewith all right, title and interest of the Grantor in and to land extending to the center line of any streets or roads adjoining said premises.

Subject to a right-of-way for vehicles and pedestrians thirty (30) feet in width extending easterly from Main Street from the point of beginning above described along the northerly boundary first above described to the doorway located in the westerly foundation of the said main factory building (a distance of three hundred fifty-five and eighty-three hundredths (355.83 feet, more or less), with the right reserved to the Grantor, his heirs and assigns, to maintain and use on, in and over said right-of-way the existing door and stairs adjacent to said main factory building.

Subject also to existing rights of Central Maine Power Company or others to maintain transmission lines over and across said premises.

Reference is made to the deed from Atlantic Mills, Inc. to Lawrence J. Keddy dated October 30, 1961 and recorded in the Cumberland County Registry of Deeds in Book 2641, Page 44 and to the deed from Park Corporation to said Keddy dated May 4, 1974 and recorded in said Registry in Book 3545, Page 141.

Second:

A certain lot or parcel of land with any buildings and part of the dam

thereon situated at Little Falls in the Town of Gorham, bounded and described as follows:

Beginning at a point on the Easterly side of said Main Street at the Northwesterly corner of land now or formerly of Louis E. Brackett, et al;

Thence easterly by said Brackett land one hundred ninety-two (192) feet, more or less, to a corner;

Thence southerly by said Brackett land eighty-three (83) feet, more or less to land now or formerly of George N. Sferes;

Thence easterly and southerly by said Sferes land to land of Eugene Hawkes;

Thence by Hawkes land easterly to the thread of the Presumpscot River;

Thence northerly and westerly by said thread to a point in the northerly extension of the easterly side line of said Main Street;

Thence southerly by said extension and by said easterly side line of Main Street to the point of beginning; including herewith all right, title, and interest of the Grantor in and to land extending to the center line of any streets or roads adjoining said premises.

Excepting and reserving the rights of the South Windham Public Library, or Trustees thereof, in buildings occupied by them and in the land on which they are erected, and the right of access thereto easterly from said Main Street.

Third:

All right, title and interest in any and all land which may lie westerly of Main Street in the Towns of Windham and Gorham, and which was conveyed by Robert Gair Co., Inc. to Cumberland Securities Corporation by deed dated March 7, 1940 and recorded in said Registry of Deeds, Book 1601, Page 95. Excepting, however, the premises and sewer right of way conveyed by Cumberland Securities Corporation to Julia L. Siciliano by deed dated April 29, 1941, recorded in said Registry of Deeds, Book 1637, Page 119, but conveying the flowage rights reserved to the Grantor therein. Excepting from this conveyance the parcel conveyed to the Inhabitants of the Town of Windham by deed of Lawrence J. Keddy dated November 29, 1961 and recorded in the said Registry of Deeds in Book 2646, Page 357, but conveying all rights reserved in said deed.

Also conveying to the Grantee, its successors and assigns, all the Grantor's right, title and interest in and to the bed of the said river and the right to use the waters of said river where the same adjoins all premises hereby conveyed, and all rights of flowage appurtenant to these premises. Reserving, however, to the said Lawrence J. Keddy, his heirs and assigns the right to use the waters of, and take water from, the Presumpscot River, where and if said waters are not within the premises herein conveyed, for cooling and processing purposes on other land of said Keddy, his heirs and assigns adjacent to the premises herein conveyed, and to discharge said waters, and any additional waters obtained from Public Water Supply used for cooling and processing purposes into the Presumpscot River in accordance with applicable Local, State and Federal Standards, and to maintain, repair and replace the existing closed circuit cooling pipe extending from said adjacent premises into the bed of the Presumpscot River, but in no event shall the Grantee herein be obligated to maintain or alter the flow of water in the Presumpscot River for the operation, maintenance, repair or replacement of said cooling pipe.

Also conveying to the Grantee, its successors and assigns that portion of the island sometimes called Little's Island which lies southerly of a line drawn from the monument with the iron near the southwest corner of land formerly of Robert Miele et al located on the easterly side of said Main Street and running on a course of North 89° West (True North) (the large oak tree mentioned in earlier deeds having long since been cut.)

Also conveying to the Grantee, its successors and assigns the right to maintain, repair and replace a structure on the building formerly of Park Corporation, later of Lawrence J. Keddy, for the purpose of supporting the 12,000 volt electric transmission line above mentioned.

Together with the right, in common with others so entitled, to pass and repass over, across and along the existing roadway, which starts on Depot Street near the line of land formerly of Lucy Hart and runs southerly and then easterly toward the land of Maine Central Railroad, then runs southerly, then westerly around the southerly end of the factory building to run between the factory building and the Presumpscot River, as a means of access to the electric transmission line and the supporting poles thereof near said River, and the right to retain, repair and replace in its present location one guy pole and anchors near the property line beside said existing roadway. Neither the Grantor nor the Grantee, their respective heirs, successors or assigns, shall be obligated to repair or maintain any portions of said roadway.

This conveyance is made subject, however, to the right to use, in common with the Grantor, his heirs and assigns, so much of said roadway as crosses premises herein conveyed.

The premises hereby conveyed are subject to the right and easement of the Central Maine Power Company, its successors and assigns, to repair, replace and maintain any and all of its transmission and distribution lines as are now located along and across said premises and the right of said Central Maine Power Company, its successors and assigns, to overflow and flood the above described premises as may be overflowed and flooded by means of its dam at Mallison Falls all as set forth in deed of Cumberland Securities Corporation to Atlantic Mills, Inc. dated January 29, 1954, recorded in said Registry of Deeds Book 2167, Page 245.

The above described premises are also conveyed subject to the covenants of the Grantor herein which are binding upon him, his heirs and assigns as to the use of water of the Presumpscot River which may be dammed up or stored, said covenants being more fully set forth in the said deed of Cumberland Securities Corporation to the Atlantic Mills, Inc. dated January 29, 1954.

The above described premises are also conveyed subject to an agreement respecting the height of the dam at Little Falls between E. I. DuPont De Nemours Powder Company and Androscoggin Pulp Company dated July 25, 1913 and recorded in said Registry of Deeds, Book 925, Page 176, to the extent said agreement may still be in effect.

Reference is made to the deed from Atlantic Mills, Inc. to Lawrence J. Keddy dated October 30, 1961 and recorded in the Cumberland County Registry of Deeds in Book 2641, Page 44 and, as to a small portion, the deed from Park Corporation to Lawrence J. Keddy dated May 9, 1974 and recorded in said Registry of Deeds in Book 3545, Page 141.

TO HAVE AND TO HOLD the same, together with all the privileges and appurtenances thereunto belonging to the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever.

And the said Grantor does covenant with the said Grantee, its successors and assigns that he has not delivered any unrecorded instrument to any third party or parties (excluding the Grantee herein) conveying any interest in or encumbering the real estate and interest in real estate listed and described herein.

IN WITNESS WHEREOF, the said Lawrence J. Keddy, unmarried, has hereunto set his hand and seal this day of in the year of our Lord one thousand nine hundred and seventy-four.

Signed, Sealed & Delivered
in presence of

_____ _____ (Seal).
Lawrence J. Keddy

STATE OF MAINE
CUMBERLAND, ss. 1974

Personally appeared the above named Lawrence J. Keddy and acknowledged the above instrument to be his free act and deed.

Before me,

_____
Attorney-at-Law

KNOW ALL MEN BY THESE PRESENTS,

THAT, COMMERCIAL CHEMICAL CORPORATION, a Corporation organized and existing under the laws of the State of Maine and located at Windham in the County of Cumberland and State of Maine in consideration of One Dollar ($1.00) and other valuable consideration paid by SCOTT PAPER COMPANY, (S. D. WARREN DIVISION), a Corporation organized and existing under the laws of the Commonwealth of Pennsylvania and having a place of business at 89 Cumberland Street in the City of Westbrook, County of Cumberland and State of Maine, the receipt whereof, it does hereby Acknowledge, does hereby Remise, Bargain, Sell and Convey and forever Quit-Claim unto the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever, premises, rights and easements located in the Towns of Windham and Gorham in the County of Cumberland and State of Maine, hereafter described:

A certain lot or parcel of land with the buildings thereon and all water rights and flowage rights associated therewith, the dam and the right to maintain said dam located in the Towns of Windham and Gorham in the County of Cumberland and State of Maine at Gambo Falls and more particularly bounded and described as follows (True Meridian):

First:

Beginning at the center line of the Gambo Road at the Town line between Gorham and Windham and in the westerly end of the bridge passing over the Presumpscot River; thence across said bridge and a portion of said River and along the central line of said Gambo Road on a course of North 74° 19' 30" East a distance of one hundred sixty-six and forty hundredths (166.40) feet, more or less to an angle in said Road; thence by the central line of said Gambo Road on a course of North 50° 47' 30" East a distance of one hundred seventy-three and twenty-five hundredths (173.25) feet to an angle in said Road; thence on a course of North 40° 20' 30" East a distance of thirty-five and one-half (35.50) feet, more or less, to the prolongation northeasterly of the northwesterly side line of the "SOUTH ROAD" right-of-way hereinafter mentioned, and other land of Commercial Chemical Corporation; thence by line of land of said Commercial Chemical Corporation on a course of South 8° 37' West a distance of forty-four and 20/100 (44.20) feet, more or less, to a monument on the southerly side line of said Gambo Road; thence on the same course one hundred ninety-seven and forty-nine hundredths (197.49) feet by the said side line of said right-of-way to a monument; thence on a course of South 3° 42' 30" West by said side line of said right-of-way a distance of one hundred twelve and thirty-two hundredths (112.32) feet to a monument; thence on a course of South 2° 54' East eighty-eight and 70/100 (88.70) feet, more or less, to an iron pipe eight (8) feet northwesterly from the center line of the railroad spur; thence southwesterly on a curve parallel

with said railroad spur a distance of one hundred twenty (120) feet, more or less, to a monument; thence on a course of South 13° 41' 30" West a distance of two hundred sixteen and thirty-two hundredths (216.32) feet to a brass plug set in a concrete foundation; thence on a course of South 32° 19' 30" West a distance of seventy-one and forty-seven hundredths (71.47) feet to an iron pipe set in the ground; thence on a course of South 43° 41' 30" West a distance of three hundred twenty-four and thirty-eight hundredths (324.38) feet to an iron pipe set in the ground; thence continuing on the same course one hundred thirteen (113) feet, more or less, to the thread of the Presumpscot River northeasterly of an Island; thence northerly by the thread of said River one thousand three (1,003) feet, more or less, to the point in the central line of said Gambo Road and the point of beginning.

Subject to the rights of the public in said Gambo Road.

Second:

Granting and including as a part of said parcel and the Grantor hereby grants and conveys to the Grantee herein the right, title and interest of the Grantor in and to the rights reserved in that deed dated February 18, 1914 from E. I. DuPont De Nemours Powder Company to Atlas Powder Company recorded in the Cumberland County Registry of Deeds in Book 938, Page 80 to all flowage right and the right to flow by maintaining the dam erected by E. I. DuPont De Nemours Powder Company across the Presumpscot River at Gambo or Newhall, so-called, partly in the Town of Windham and partly in the Town of Gorham, both in said County of Cumberland, or by means of any dam or dams which may be erected in place of said dam with the rollway in said dam or any dams as may hereafter be erected in place thereof at no greater height or elevation than 133.800 feet above the mean sea level at Portland, County of Cumberland, State of Maine, as adopted and used by the United States Geological Survey, said elevation to be determined by reference to the bench marks established by the said United States Geological Survey, which are more fully referred to in deed of Seward G. Wescott, et al to E. I. DuPont De Nemours Powder Company dated the 18th day of October, A. D. 1912, recorded in Cumberland County, Maine, Records in Book 903, Page 417; and the right to maintain the said dam at the present elevation, and to be exempt from any damage now or hereafter that may be caused by ice, flood waters, or any other cause direct or indirect from the maintaining of the dam at the present height; and including also all the right, title and interest of the Grantor in and to said dam and all easements and rights in connection therewith.

Third:

The right to flow by maintaining said dam any and all other parcels of land now or formerly owned by Commercial Chemical Corporation by means of the dam or dams described in parcel two and the right to be exempt from any damage now or hereafter that may be caused by ice, flood waters or any other cause, direct or indirect, from the maintaining of the dam at the present height.

Fourth:

All the water rights upon the Head Dam of Presumpscot River and other privileges conveyed to Oriental Powder Company by William H. Jackson by deed dated October 13, 1860, and recorded in Cumberland County Registry of Deeds, in

and for the State of Maine, in Deed Book 303, Page 359. Also, all the right, title and interest of the Grantor in and to a lot in Windham, County and State aforesaid, including Lovett's Falls, conveyed to said Oriental Powder Company by Sewell Lovett by deed dated May 22, 1867, and recorded in Cumberland County Registry of Deeds in and for the State of Maine in Deed Book 353, Page 30. Also all the right, title an interest of the Grantor in and to a lot in Gorham, County and State aforesaid, conveyed to said Oriental Powder Company by Eben Steele by deed dated April 2, 1867, and recorded in Cumberland County Registry of Deeds, in and for the State of Maine, in Deed Book 353, Page 34, said lot including the Gorham side of Lovett's Falls. Also the right, title and interest of the Grantor in and to a certain lot conveyed to said Oriental Powder Company by Alexander G. Cobb by deed dated May 23, 1867, and recorded in the records of Cumberland County and State of Maine in Deed Book 353, Page 29. The above described parcels comprising a part of the real estate and the water rights conveyed to Joshua M. C. Armsby by the Oriental Powder Company by deed dated January 11, 1872, and recorded in Cumberland County Registry of Deeds in and for the State of Maine in Deed Book 389, Page 395, the same being situated in the Towns of Gorham and Windham and Standish, County and State aforesaid, excepting from the said land whatever is included within the location of the Portland and Ogdensburg Railroad and has heretofore been granted as a right of way for railroad uses to said Railroad Company;

Being a part of the same premises conveyed by said Joshua M. C. Armsby to the Oriental Powder Mills by deed dated March 7th, A. D. 1872, and recorded in Cumberland County Registry of Deeds in and for the State of Maine, in Deed Book 394, Page 466.

Fifth:

The right to flow all that certain piece or parcel of land situate in the Town of Gorham, County of Cumberland and State of Maine, containing thirty-five (35) acres, more or less, and more particularly bounded and described as follows, to wit:

Beginning on the northerly side of land now or formerly owned by Seward G. Wescott and running northerly on the westerly side of the Presumpscot River to land now or formerly of A. F. Kemp; meaning hereby to sell and convey to the Grantee the right to flow all of the land of homestead farm that may be flowed by raising the breast of dam at Newhall five (5) feet, or as much land as is necessary to keep the water above said dam;

Being part of farm deeded to Henrik M. Toft by Frank N. Mayberry, September 21, 1904, registered in Cumberland County Registry of Deeds in and for the State of Maine in Deed Book 758, Page 13; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Henrik M. Toft, dated the 24th day of June, A. D. 1911, and recorded in the records of Cumberland County and State of Maine, in Deed Book 888, Page 178, as by reference thereunto will more fully and at large appear.

Sixth:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, County of Cumberland and State of Maine, more particularly bounded and described as follows, to wit:

On the west by the River Road, so called; on the north by the road leading from said River Road by the house now or formerly of Elijah Cook to the Gray Road; on southeast by Pleasant River, and on the south by land now or formerly owned by David O. Small.

Being the homestead farm formerly owned by William Elkins, deceased, so far as the same may be flowed by means of the dam of the Grantor erected across the Presumpscot River at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Isaiah C. Elkins, dated the 11th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 910, Page 295, as by reference thereunto will more fully and at large appear.

Seventh:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, on the easterly side of Pleasant River Road and on the northerly side of Pleasant River, in the County of Cumberland and State of Maine, and described as follows, to wit:

Being the same lot of land described in a certain deed from John M. Allen et al to John C. Ross, dated June 17, 1891, and recorded in Cumberland County Registry of Deeds, in and for the State of Maine, in Deed Book 580, Page 468, so far as the same may be flowed by means of the dam of the Grantor erected across the Presumpscot River at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Frank E. Fairbanks, dated the 11th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 903, Page 304.

Eighth:

The right to flow all that certain piece or parcel of land situate on the easterly side of Presumpscot River, in the Town of Windham, County of Cumberland and State of Maine, and described as follows, to wit:

Being the same lot of land conveyed to John A. Kimball by Frank E. Fairbanks by deed of warranty dated May 25, 1911, and recorded in Cumberland County Registry of Deeds in Book 876, Page 140, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of John A. Kimball, dated the 11th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 907, Page 93, as by reference thereunto will more fully and at large appear.

Ninth:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, County of Cumberland and State of Maine, and described as follows, to wit:

Being the lot of land conveyed by John Webb to Oliver Walker by deed dated February 28, 1865, and recorded in Cumberland County Registry of Deeds in and for the State of Maine, in Deed Book 331, Page 397, and also that lot of land situate in said Town, County and State aforesaid, conveyed by Charles B. Walker to Oliver H. Walker by deed dated April 14, A. D. 1881, and recorded in said Registry of Deeds in and for the County and State aforesaid, in Deed Book 475, Page 367, so far as the same may be flowed by means of the dam of the Grantor across the Presumpscot River at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Mary M. Walker et al, dated the 12th day of December, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 903, Page 444, and to E. I. duPont de Nemours and Company by deed of Howard C. Walker, dated November 18, 1932, and recorded as aforesaid in Deed Book 1410, Page 232, as by reference to said deeds will more fully and at large appear.

Tenth:

The right to flow all that certain piece or parcel of land situate in the Town of Gorham, County of Cumberland and State of Maine, and described as follows, to wit:

Being the lot of land conveyed to Oran (sometimes spelled Orin) I. Leavitt by Elizabeth M. Leavitt by deed of warranty dated October 4, 1882, and recorded in Cumberland County Registry of Deeds, in and for the State of Maine, in Deed Book 492, Page 178, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Orin I. Leavitt, dated the 11th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 903, Page 318, as by reference thereunto will more fully and at large appear.

Eleventh:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, County of Cumberland and State of Maine, as described as follows, to wit:

Being fifteen one-hundredths (15/100) of an acre of that certain lot of land situate in the Town, County and State aforesaid, on the east bank of the Presumpscot River; also being the second of two (2) parcels of land conveyed to Ulysses G. Loveitt by Hiram C. Loveitt by deed of warranty dated July 13, 1894, and recorded in Cumberland County Registry of Deeds in and for the State of Maine, in Deed Book 615, Page 267, and also the same lot of land conveyed by Elijah Emery, et ux, to Hiram C. Loveitt by deed of warranty dated July 12, 1852, and recorded in said Registry of Deeds in and for the County of Cumberland and State of Maine, in Deed Book 248, Page 56, so far as the same may be flowed by means of the dam of the Grantor at Gambo or Newhall; also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Ulysses G. Loveitt, dated the 7th day of January, 1913, and recorded in the records of Cumberland County and State of Maine, in Deed Book 907, Page 105, as by reference thereunto will more fully and at large appear.

Twelfth:

The right to flow all that certain piece of land situate in the Town of Gorham, County of Cumberland and State of Maine, and described as follows, to wit:

That certain lot of land conveyed by Mary J. Tyler to Elizabeth F. Wescott by deed dated August 23, 1889, and recorded in Cumberland County Registry of Deeds in and for the State of Maine, in Deed Book 561, Page 301, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall.

Excepting, however, from said lot so much as may have been conveyed by said Elizabeth F. Wescott to Portland and Ogdensburg Railway by deed dated May 29, 1890, and recorded in said Registry of Deeds in and for the County and State aforesaid, in Deed Book 567, Page 411.

Being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Seward G. Wescott, et al dated the 18th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 903, Page 417, as by reference thereunto will more fully and at large appear.

Thirteenth:

The right to flow all that certain piece or parcel of land situate in the Town of Gorham, County of Cumberland and State of Maine, and described as follows to wit:

Being the same lot conveyed to Seward G. Wescott under the name of "Seward Wescott" by James E. Tyler by deed of warranty dated March 20, 1861, and recorded in Cumberland County Registry of Deeds, in and for the State of Maine, in Deed Book 310, Page 80, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall.

Excepting, however, from said lot so much as was conveyed by Seward G. Wescott et al to Portland and Ogdensburg Railway by deed dated May 29, 1890, and recorded in said Registry of Deeds of Cumberland County and State of Maine, in Deed Book 567, Page 411.

Also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Seward G. Wescott, dated the 11th day of October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 903, Page 415.

Fourteenth:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, County of Cumberland and State of Maine, and described as follows, to wit:

That certain lot of land conveyed to John W. Nevers by Albion L. Bacon by deed of warranty dated November 14, 1911, and recorded in Cumberland County Registry of Deeds in and for the State of Maine, in Deed Book 885, Page 87, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall.

Being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of John W. Nevers, dated the 11th day October, A. D. 1912, and recorded in the records of Cumberland County and State of Maine, in Deed Book 915, Page 87, as by reference thereunto will more fully and at large appear.

Fifteenth:

The right to flow all that certain piece or parcel of land situate in the Town of Windham, County of Cumberland and State of Maine, and described as follows, to wit:

Being the lot of land conveyed to Lucy E. Lovis by Hiram C. Loveitt by deed of warranty dated March 6, 1899, and recorded in Cumberland County Registry of Deeds, in and for the State of Maine, in Deed Book 671, Page 458, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall.

Also being the same flowage rights which were conveyed to E. I. duPont de Nemours Powder Company by deed of Lucy E. Lovis, dated the 26th day of June, A. D. 1913, and recorded in the records of Cumberland County and State of Maine, in Deed Book 915, Page 91.

Sixteenth:

All the right, title and interest of the Grantor to flow the land of Thomas J. Scott, situate in the Town of Windham, County of Cumberland and State of Maine, as confirmed in the action instituted by said Thomas J. Scott against E. I. duPont de Nemours and Company in the Supreme Judicial Court of Maine during the April 1917 term of said Court.

Seventeenth:

The right to flow all that certain piece or parcel of land situate in the Town of Gorham, County of Cumberland and State of Maine, bordering the Presumpscot River, and described as follows, to wit:

Being that certain lot of land situated in said Gorham, which was formerly the homestead of Augustus F. Kemp, late of said Gorham, deceased, to wit:

Northeasterly by land formerly of Israel H. Kemp; easterly and southeasterly by the Presumpscot River and land formerly of Charles A. Purington; southwesterly by land formerly of said Purington and northwesterly by land formerly of Frederick Purington, Louisor Sawyer, Elbridge Wilson and Benjamin Irish, so far as the same may be flowed by means of the dam of the Grantor, erected across the Presumpscot River at Gambo or Newhall.

Being the same flowage rights which were conveyed by Eda M. Kemp to E. I. duPont de Nemours and Company by deed of warranty dated September 22, A. D. 1933, and recorded in the Registry of Deeds in and for Cumberland County, State of Maine, in Deed Book 1426, Page 342.

It is expressly understood and agreed that the Grantor does hereby grant and convey to the Grantee, its successors and assigns, subject to the exceptions and reservations hereinbefore expressly set forth, all its right, title and interest in and to said tracts and parcels of land and to any water and flowage rights appurtenant thereto which may have accrued to it or of which it may be seized and possessed, whether by reservation by it or grant to it in all former conveyances; by lapse of time; by adverse possession either by it or its predecessors in title; or by lapse or expiration of any rights dominant thereover.

Expressly excluding from this conveyance, but subject to flowage rights conveyed in Section Third above, those premises in Windham and Gorham lying northerly of Gambo Road and southerly of land formerly of M. Mayberry and Atlas Powder Company (in Windham) and southerly of land formerly of O. I. Leavitt (in Gorham) as shown on Plan recorded in Plan Book 52, Page 58 hereinafter mentioned.

Eighteenth:

Granting and including as appurtenant to the first parcel a right of way or easement forty (40) feet in width extending from the substation near the hydroelectric generating station on said first parcel southerly across the building erected on the land conveyed to Alloy Steel Mills, Inc. by deed dated November 9, 1972 and recorded in said Registry of Deeds in Book 3323, Page 290, to the easement conveyed to Atlantic Mills, Inc. by deed of Raymond F. Phinney dated November 4, 1960 and recorded in said Registry of Deeds in Book 2579, Page 476.

Nineteenth:

The right to use in common with others so entitled the sixteen (16) foot roadway known as "South Road" in the Indenture between E. I. duPont de Nemours and Company and Plastics Materials Corporation dated May 29, 1946 and recorded in said Registry of Deeds in Book 1827, Page 13 (See Plan Book 52, Page 58), for access to adjacent premises herein conveyed, for access to the forty (40) foot pole line easement crossing land of Commercial Chemical Corporation and land of Alloy Steel Mills, Inc. and for access to the thirty (30) foot right-of-way crossing the property formerly of Atlas Powder Company and now or formerly of Raymond F. Phinney, together with the right and easement to travel from said "South Road" across the premises of the Grantor along the existing roadway between the existing "hydro station" and said "South Road" with men and vehicles between the premises herein conveyed and Gambo Road.

Twentieth:

Together with the right to use the existing railroad spur in common with the Grantor, its successors and assigns at such times as it may be necessary or convenient to load or unload materials brought by rail and to pass from the railroad spur to the premises herein conveyed at points which may be reasonably convenient from time to time, and the right at its own expense to make said spur usable.

Reserving to the Grantor the right to draw water from the raceway by the pipe presently existing or by any other pipe of similar size that may be substituted therefor, and the right to repair, replace and maintain said pipe provided, however, that the Grantor, its successors and assigns restore the ground and structure disturbed by such repairs or maintenance activities promptly at its and their expense and provided further that any such repairs or replacements shall be made at such times and in such manner as will not unduly interfere with power generation at the hydroelectric station herein conveyed. Provided, however, that the Grantee herein, its successors and assigns, shall not be required to maintain water in said raceway.

Being a part of the premises conveyed to Commercial Chemical Corporation by deed of Small Business Administration dated January 28, 1960 and recorded in the Cumberland County Registry of Deeds in Book 2524, Page 5.

TO HAVE AND TO HOLD the same, together with all the privileges and appurtenances thereunto belonging, to it, the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever.

And the said Grantor Corporation does covenant with the said Scott Paper Company (S. D. Warren Division), its successors and assigns, that it has not delivered any unrecorded instrument to any third party or parties (excluding the Grantee) conveying any interest in or encumbering the real estate and interest in real estate listed and described herein.

IN WITNESS WHEREOF, the said Grantor Corporation has caused this instrument to be sealed with its Corporate seal and signed in its Corporate name

by Lawrence J. Keddy, its President, thereunto duly authorized, this

day of in the year of our Lord one thousand nine hundred and

seventy-four.

Signed, Sealed & Delivered
in presence of

COMMERCIAL CHEMICAL CORPORATION

_____ By _____
Its President

STATE OF MAINE
CUMBERLAND, ss. 1974

Personally appeared the above named Lawrence J. Keddy, President of said Grantor Corporation as aforesaid and acknowledged the foregoing instrument to be his free act and deed in his said capacity and the free act and deed of said Corporation.

Before me,

_____
Attorney-at-Law

KNOW ALL MEN BY THESE PRESENTS,

THAT, MALLISON CORPORATION, a Corporation organized and existing under the laws of the State of Maine and located at South Windham in the Town of Windham, County of Cumberland and State of Maine in consideration of One Dollar ($1.00) and other valuable consideration paid by SCOTT PAPER COMPANY (S. D. WARREN DIVISION), a Corporation organized and existing under the laws of the Commonwealth of Pennsylvania and having a place of business at 89 Cumberland Street in the City of Westbrook, County of Cumberland and State of Maine, the receipt whereof, it does hereby Acknowledge, does hereby Remise, Bargain, Sell and Convey and forever Quit-Claim unto the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever, premises, rights and easements located in the Towns of Gorham and Windham in the County of Cumberland and State of Maine, hereafter described:

First:

A certain easement over, upon and across land now or formerly of Raymond F. Phinney located in the Towns of Gorham and Windham, between land now or formerly of Eugene Hawkes, on the South and land now or formerly of Commercial Chemical Corporation in Windham on the North, more fully described in the deed from Atlantic Mills, Inc. to Mallison Corporation dated May 29, 1961 and recorded in the Cumberland County Registry of Deeds in Book 2607, Page 23.

Second:

A certain easement over, upon and across land now or formerly of Eugene Hawkes situated in the Town of Gorham and extending from the Presumpscot River near land now or formerly of one Nealey Northerly sixteen hundred (1600) feet , more or less, to land now or formerly of Raymond F. Phinney, more fully described in the deed from Atlantic Mills, Inc. to Mallison Corporation dated May 29, 1961 and recorded in said Registry of Deeds in Book 2607, Page 25.

Third:

A certain lot or parcel of land situated in said Windham lying southerly of the first parcel of land conveyed to Lawrence J. Keddy by deed of Atlantic Mills, Inc. dated October 30, 1961 and recorded in said Registry of Deeds in Book 2641, Page 44 and more particularly described as follows:

Beginning on the southerly line of land so conveyed to Lawrence J. Keddy at a point which is twenty-five (25) feet easterly of the center line

of the existing pole line which connects the generating stations at Little Falls and at Mallison Falls;

Thence on a course of South 11° 08' 30" East along the line twenty-five (25) feet distant from and parallel with said pole line, and by line of land being leased by Lawrence J. Keddy to NMC Windham, Inc. to a line at right angles to the westerly boundary of the main line of track of Maine Central Railroad at a switch thereon;

Thence North 85° 16' 30" East sixty-seven and thirteen hundredths (67.13) feet to the westerly boundary of land now or formerly of Maine Central Railroad;

Thence running Southerly by said Maine Central Railroad land to line of land formerly of Samuel Rindge and now or formerly of Rich Properties, Inc. (see deed from Hudson Pulp & Paper Corporation dated December 28, 1964 and recorded in said Registry in Book 2873, Page 175 and deed recorded in said Registry in Book 3065, Page 761);

Thence westerly by line of said Rich Properties, Inc. land to the Presumpscot River;

Thence northerly by the Presumpscot River to the southerly line of land conveyed by Atlantic Mills, Inc. to Lawrence J. Keddy above mentioned;

Thence easterly by line of said Keddy land to the point of beginning.

Being a part of the premises described in the deed from Cumberland Securities Corporation to Mallison Corporation dated May 25, 1955 and recorded in said Registry of Deeds in Book 2232, Page 46, and subject to the reservations and covenants for the benefit of Cumberland Securities Corporation, its successors and assigns, more fully set out in said deed.

Fourth:

(1) A certain parcel of land, with buildings, structures, dam and mill privilege thereon and appurtenant thereto, situated in said Town of Gorham, at Mallison Falls, so called, on the southerly side of Mallison Street, so called, bounded and described as follows:

Beginning at an iron pin set in the ground at the northeasterly corner of land formerly of Thomas Brackett on the southerly side of said Mallison Street; thence extending South 27° 59' East on the line of said Brackett's land two hundred twenty-one (221) feet, more or less, to an iron pin set in the ground; thence extending North 54° 46' East two hundred eight (208) feet to an iron pin set in the ground on the westerly side of the Old Town Way, otherwise known as the Old Horse Beef Road, now known as Canal Street; thence running South 32° 38' East on the westerly side of said Canal Street four hundred ninety-six and one half (496 1/2) feet to a point, said point being the westerly end of a line established between Sebago Wood Board Company and Kirstina M. Walker, et al, by their two deeds dated November 10, 1899, recorded in Cumberland County Registry of Deeds, Book 682, Pages 122 and 200, respectively; thence on the same course a distance of one hundred eleven (111) feet to the southerly corner of the lot conveyed by Kirstina M. Walker et al to Mallison Power Company by deed dated May 23, 1900 and recorded in the Cumberland County Registry of Deeds in Book 688, Page 480;

Thence North 44° 22' East to an iron pipe on the easterly side of said Canal Street and on the northerly side of a right-of-way reserved by Central Maine Power Company in its deed to Mallison Corporation dated May 25, 1955 and recorded in said Registery of Deeds in Book 2232, Page 33; thence South 37° 09' East a distance of twenty-five (25) feet to the southerly side of said reserved right-of-way; thence North 61° 03' East a distance of fifty-six and seventy-two hundredths (56.72) feet to an iron pipe and a corner of land of Central Maine Power Company; thence South 37° 09' East by line of said Central Maine Power Company land a distance of forty-one (41) feet to an iron pipe; thence southerly on a curve to the right by the westerly bank of the former Cumberland and Oxford Canal a distance of two hundred nineteen (219) feet, more or less, to an iron pipe at line of land conveyed by Morse Willis to Stevi Penuk and Asta Penuk by deed dated November 5, 1923, recorded in Cumberland County Registry of Deeds in Book 1153, Pag3 387, said iron pin being set in the line established between Sebago Wood Board Company and Morse Willis by their two deeds dated November 11, 1899, recorded in said Registry of Deeds Book 682, Pages 205 and 206, respectively; thence extending North 50° 35' East along said Penuks' northerly line, which is the line established between Sebago Wood Board Company and Morse Willis by their said two deeds dated November 11, 1899, to the middle of the Presumpscot River; thence extending northerly up the middle of said river to the bridge across said river on said Mallison Street; thence extending southwesterly by said street to a point where a line extended North 27° 59' West from the iron pin at the point of beginning would intersect the last described line; thence extending South 27° 59' East a distance of thirty-one feet, more or less, to the iron pin at the point of beginning; together with all the Grantor's right, title and interest in and to the said Cumberland and Oxford Canal and the land over which the same is built and in and to any and all property, rights and interests conveyed to said Sebago Wood Board Company by Kirstina M. Walker, et al, and Morse Willis by their several deeds dated respectively November 10, 1899 and November 11, 1899; but subject to the rights of the public in and to said Mallison Street and said Canal Street; being a portion of the premises, properties, rights and privileges conveyed by said Sebago Wood Board Company to William W. Mason, Trustee, by its deed dated November 24, 1899 and recorded in said Cumberland County Registry of Deeds, Book 684, Page 175, and a portion of the premises, properties, rights and privileges conveyed by said William W. Mason, Trustee, to Mallison Power Company by deed dated January 28, 1903, recorded in said Registry, Book 728, Page 345.

The above described premises, rights and privileges are conveyed subject to all the terms, conditions, agreements and covenants as the same were contained in said deed from Sebago Wood Board Company to William W. Mason, Trustee.

Subject to the right reserved to Central Maine Power Company, its successors and assigns, to pass and repass for any and all purposes over, along and across said road leading from Canal Street to the Mallison Power Station, the same to be used in common with the Grantee and others entitled to use the same. (All courses in present deed based on True Meridian).

(2) A certain lot or parcel of land in Windham and/or Gorham in said County of Cumberland, at Mallison Falls, so called, together with the dam situated thereon and the mill privileges connected therewith, except as are hereinafter reserved or excepted, bounded and described as follows:

Beginning at a stone monument near the easterly bank of the Presumpscot River, in the northerly boundary line of the remaining land owned by Samuel Rindge on February 4, 1932 and of the premises conveyed by said Samuel Rindge to Cumberland County Power and Light Company by deed dated February 4, 1932, recorded in Cumberland County Registry of Deeds, Book 1392,

Page 174, said stone monument being distant southwesterly two hundred eighteen and three tenths (218.3) feet from the center line of the Maine Central Railroad, Mountain Division, as now constructed, measured along said northerly boundary line; thence South 65° 29' East three hundred ninety-seven and three (397.3) feet to a point at the shore end of an old abutment in the easterly bank of said river, south of the highway bridge over said river; thence south 24° 47' East one hundred ten and four hundredths (110.04) feet to a point six (6) feet northwesterly of the "cloth building", so called, on said remaining land of Samuel Rindge; thence south 47° 32' East sixty-one and forty-nine hundredths feet (61.49) by a line parallel with and six (6) feet westerly from said cloth building to the southerly or downstream side of the existing dam structure; thence South 42° 11' West thirty-three and forty-five (33.45) feet, by a line parallel with and six (6) feet northerly from the "dye house", so called, on said remaining land of Samuel Rindge; thence South 26° 13' East nineteen and eighty-four hundredths (19.84) feet, by a line parallel with and six feet (6) northwesterly from said dye house; thence South 42° 06' West twenty-eight and nineteen hundredths (28.19) feet, by a line parallel with and six feet northwesterly from said dye house; thence South 47° 05' East one hundred twenty-seven and seven tenths (127.7) feet, by a line parallel with and six feet southwesterly from said dye house, to a point in the prolongation of the southeasterly line of said dye house; thence South 61° 00' East one hundred fourteen and two hundredths (114.02) feet to a monument formerly six (6) feet distant southwesterly from the pump house in the rear of the machine shop on said remaining land of Samuel Rindge, which point (in 1974) is twenty-five and forty-nine hundredths (25.49) feet southwesterly from the southwesterly corner of the machine shop; thence South 53° 17' East three hundred twenty-eight and four tenths (328.4) feet to a monument where once stood a twenty-inch beech tree; thence South 32° 28' East five hundred sixty-one and nine tenths (561.9) feet to an iron pipe in the southerly boundary line of said remaining land of Samuel Rindge near the easterly bank of said river; thence turning and running South 65° 36' West, in a prolongation of said southerly boundary line of said remaining land of Samuel Rindge, to the center of the Presumpscot River; thence turning and running northerly, by a meandering line, through the center of said Presumpscot River, to the intersection of said center line with the prolongation of the northerly boundary line of said remaining land of Samuel Rindge; thence turning and running northeasterly along the line of said prolongation to the stone monument at the point of beginning.

In case of any question as to distances or bounds of the above described property, reference shall be had to plan of the property conveyed by said deed of Samuel Rindge dated Feburary 4, 1932, entitled "Survey of Water Power at Mallison Falls, Cumberland County Power & Light Company" dated Dec. 1, 1931 and numbered 391-1, recorded in Cumberland County Registry of Deeds, Book of Plans No. 20, Page 47. (All courses in present deed based on True Meridian).

Also conveying to the Grantee, its successors and assigns, the right to enter on the said remaining premises owned by Samuel Rindge on February 4, 1932 from time to time whenever necessary or expedient for the purpose of inspecting, altering, maintaining, repairing or removing any or all of the buildings or structures now or hereafter located upon the premises conveyed by Samuel Rindge to Cumberland County Power and Light Company by said deed of February 4, 1932, or erecting new buildings or structures thereon, or operating said dam or any other dam constructed in place thereof.

Also conveying to the grantee, its successors and assigns, with respect to a portion of the said remaining premises owned by Samuel Rindge on February 4, 1932, to wit: a triangular area marked "A" on the said plan recorded as aforesaid, and bounded and described as follows:

Beginning at the stone monument near the easterly bank of the Presumpscot River, said stone monument being the northwesterly corner of said remaining premises owned by Samuel Rindge on February 4, 1932; thence running northeasterly along the said northerly boundary line along said remaining premises a distance of one hundred (100) feet; thence turning and running southerly across said remaining premises a distance of one hundred (130) thirty feet, more or less, to a point in the division line between said remaining premises and the premises described in this paragraph (4), one hundred fifty (150) feet distant southeasterly along said division line from the stone bound above mentioned; thence turning and running northwesterly along said division line one hundred fifty (150) feet to said stone monument at the point of beginning, containing six thousand three hundred thirty-seven and five tenths (6,337.5) square feet, more or less; the perpetual privilege, authority and easement to erect, construct and maintain thereon and thereover electric power lines consisting of poles or metal towers as may be hereafter decided on by said Grantee, with wires attached thereto for the transmission of electricity and with all necessary foundations, fixtures, anchors, guys, braces, crossarms, cables, wires, and other appurtenances, and to maintain, repair and replace such electric power lines, to stretch wires and to conduct electricity through said wires for all purposes of the Grantee over and across the above-described property owned by Samuel Rindge on February 4, 1932; together with the right to enter upon said premises at all times for the purpose of repairing or replacing said electric power lines, together with the right to trim and cut down any and all trees, timber and bushes thereon and such tall trees, outside of said area, as in falling would reach the wires of any power line so located on such area, provided the center line of such power line is not less than twenty-five (25) feet from either side line of such area; reserving, however, to Samuel Rindge, his heirs and assigns, the title to the wood and trees so cut, and also reserving the use and enjoyment of such area for all such purposes as do not conflict or infringe upon the use of such area by the Grantee, its successors and assigns, for the purposes above mentioned.

Also conveying to the Grantee, its successors and assigns, the perpetual privilege, authority and easement to overflow and flood the remaining premises owned by Samuel Rindge on February 4, 1932 as the same may be overflowed and flooded by means of the dam hereby conveyed or any other dam constructed across the Presumpscot River in place thereof at such a height that the same will not hold back the water in excess of the height caused by the said dam hereby conveyed.

Meaning and intending hereby to convey with limitation hereof all the right, title and interest which the Grantor may have in and to said dam, the land on which it stands and on which any stone abutment connected therewith is located, including all right, title and interest of the Grantor in and to the bed of the Presumpscot River and the waters thereof in the Towns of Windham and Gorham, including all mill privileges, all except as are herein reserved or excepted; flowage, riparian and water rights however evidenced and wherever and whenever acquired, except as herein otherwise limited with respect to said remaining land owned by Samuel Rindge, also all flumes, penstocks, gates and gatehouses as now located upon the lands hereby conveyed; and all rights of way and other easements, if any, owned by this Grantor, the same being used or useful in connection with the operation and maintenance of said dam. Being a portion of the premises conveyed by deed of Windham Manufacturing Company to Samuel Rindge, dated December 7, 1927, and recorded in Cumberland County Registry of Deeds, Book, 1278, Page 455, and the

same premises conveyed by Samuel Rindge to Cumberland County Power and Light Company by said deed of February 4, 1932. Subject, however, to the right, title and interest of all persons in and to so much of the highway and bridge over the Presumpscot River between Windham and Gorham as lies within the above described premises.

The premises described in this paragraph (2) are conveyed expressly subject to the right of said Samuel Rindge, his heirs, executors, administrators and assigns, and successors in title, to the free and uninterrupted right to take from the Presumpscot River water in amounts not exceeding 500,000 gallons per 24 hours for use on the remaining premises owned by said Samuel Rindge on February 4, 1932, the said water to be used for any purpose on said remaining premises except for the generation of water power; provided, however, that said exception shall not prohibit the manufacture and use of steam for any and all purposes on said remaining premises, and, in addition thereto, such amount of water, there being no obligation however on the part of the Grantee and its successors and assigns to furnish the same, for adequate fire protection and for the devices and equipment now or hereafter installed on said remaining premises with respect thereto as may be advisable or expedient or recommended or required by insurance companies whose regular business is the writing of fire risks.

The Grantee covenants and agrees for itself, its successors and assigns, that it and its assigns and successors in title will not obstruct the outlet in said present dam, and that if it or they erect another dam in said river in place thereof, it or they will provide, erect and install therein, in a sufficient and workmanlike manner, an outlet of at least twelve inches in diameter, and will not obstruct the same, and will lay a pipe of the same diameter from said outlet to a point on said remaining premises owned by Samuel Rindge on February 4, 1932 at or near the outlet in said present dam, equipped with proper fittings for connecting up with said remaining premises, with a suitable control valve, conveniently located and accessible to the owners of the said remaining premises; provided, however, that if and when the Grantee, its successors and assigns and successors in title, shall no longer use and keep and maintain any dam, then it or they shall provide, erect and install a pipe of the size and with the fittings and valve aforesaid, from the river bed to a point on said remaining land owned by Samuel Rindge on said February 4, 1932, at or near the outlet in said present dam, and will construct an adequate pool or basin in the river bed where the intake end of said pipe is located, which intake end shall be properly screened, all to the end that the said Samuel Rindge, his heirs, assigns and successors in title to said remaining land shall, either by gravity flowage through a dam or by means of pumping through said pipe from the river bend, obtain the water hereinbefore reserved. The said Samuel Rindge, his heirs, assigns and successors in title to said remaining premises shall have title to and ownership of all of said pipes, fittings and controls, and of said pool or basin, shall have the sole responsibility for the repair, maintenance and operation of the same, and shall, and there is hereby reserved and excepted to the said Samuel Rindge, his heirs and assigns and successors in title, the right to enter the premises described in this paragraph (2) for the purpose of such repair, maintenance and operation.

Also excepting and reserving to the said Samuel Rindge, his heirs, executors, administrators, assigns and successors in title the right to enter on the premises described in this paragraph (2) to construct, lay, repair and maintain pipes, conduits or other channels over, along, under or across the said premises for the purpose of discharging sewage and/or waste into the

Presumpscot River, the same to be constructed and the sewage and/or waste disposed of by him or them in such a manner as shall be satisfactory to the public authorities having jurisdiction thereof.

Also excepting and reserving to the said Samuel Rindge, his heirs, executors, administrators and assigns and successors in title, the right to enter upon the premises described in this paragraph (2) from time to time, whenever necessary or expedient, for the purpose of inspecting, altering, maintaining, repairing or removing any or all buildings or structures now or hereafter located on the said remaining premises owned by Samuel Rindge on February 4, 1932, or erecting new buildings or structures thereon.

(3) A certain lot or parcel of land situated in the Town of Gorham, at Mallison Falls, so called, bounded and described as follows:

Beginning at an iron pin set in the ground in the northwesterly side line of Mallison Street, said iron pin being one hundred twenty-five (125) feet southwesterly of the southwesterly abutment of the bridge across the Presumpscot River, measured along said northwesterly side line; thence extending North 66° 03' West a distance of one hundred ninety-four (194) feet, more or less, to a monument in the thread of a brook, said point being about one hundred (100) feet from the westerly bank of said Presumpscot River, measured at right angles thereto; thence extending North 34° 57' East and approximately following said brook, one hundred ten (110) feet, more or less, to the westerly bank of said river; thence continuing on the same course to the thread of the Presumpscot River; thence extending southeasterly along the thread of said river to a point in the projected northwesterly side line of Mallison Street; thence southwesterly along said street to the point of beginning. Being the same premises conveyed by Freda Hawkes Williams to Central Maine Power Company by deed dated May 17, 1945, recorded in Cumberland County Registry of Deeds, Book 1781, Page 116. (All courses in the present deed based on True Meridians.)

Also conveying to the Grantee, its successors and assigns, the perpetual right and easement to erect, repair, rebuild, operate and patrol electric transmission and distribution lines, together with the appurtenant equipment and apparatus connected therewith, including trimming rights, as the same were excepted and reserved in an Indenture dated July 25, 1945, between Cumberland Securities Corporation and Windham Fibres, Inc., recorded in Cumberland County Registry of Deeds, Book 1787, Page 353, to which Indenture reference is hereby made for a more particular description of the rights and easements hereby conveyed.

Also conveying to the Grantee, its successors and assigns, the right to pass and repass for any and all purposes to and from Depot Street to any point on a one-rod strip described in said Indenture of July 25, 1945, which strip was located along the easterly bank of the Presumpscot River, and/or to the dam constructed at Little Falls, so called, along the two rights of way as the same are now located from Depot Street and through the buildings along suitable and convenient rights of way to be designated, all as the same were excepted and reserved in said Indenture of July 25, 1945.

Also conveying to the Grantee, its successors and assigns, the pole line easement which was conveyed by Cumberland Securities Corporation to Central Maine Power Company by instrument dated October 6, 1954, recorded in said Cumberland County Registry of Deeds, Book 1759, Page 348.

Also conveying to the Grantee, its successors and assigns, the right and easement to construct, erect, repair, replace, operate and maintain any or all of its transmission or distribution lines as the same are now located along and across the premises conveyed to Atlantic Mills, Inc. by Cumberland Securities Corporation by Indenture dated January 29, 1954, recorded in Cumberland County Registry of Deeds in Book 2167, Page 245, and the right and easement of the Grantor, its successors and assigns, to overflow and flood the premises conveyed to Atlantic Mills, Inc. by said Indenture of January 29, 1954, as said rights and easements were excepted and reserved in said Indenture of January 29, 1954.

Subject to the reservation for the benefit of Central Maine Power Company, its successors and assigns, the perpetual right and easement to erect, construct, maintain, repair, respace, replace, operate, patrol and remove an electric line or lines, together with the appurtenant equipment and apparatus connected therewith, over, along and across the premises hereby conveyed in the following described locations:

(a) Beginning at the most southerly boundary of the premises described in paragraph (1) hereof, at the northerly line of land of Stevi and Asta Penuk; thence extending northerly along the route of Central Maine Power Company's electric line as now constructed to a junction pole as now located on the northerly side of the wasteway, so called;

(b) Beginning at said junction pole and extending in a general easterly and northeasterly direction along the route of Central Maine Power Company's electric line as now constructed to and across the Presumpscot River to the easterly boundary of the premises described in paragraph (2) hereof;

(c) Beginning at a point where Central Maine Power Company's electric line as now constructed intersects the easterly line of the premises described in paragraph (2) hereof, said point being approximately fifty-one (51) feet distant northwesterly from the northwesterly corner of the machine shop, so called, as shown on a plan entitled "Survey of Water Power at Mallison Falls Cumberland Co. Power & Light Co.", dated Dec. 1, 1931 and numbered 391-1, recorded in Cumberland County Registry of Deeds; thence extending southerly and southeasterly along the route of said electric line as now constructed to a point where said electric line again crosses the easterly boundary of the premises described in paragraph (2) hereof;

(d) Beginning at said junction pole and extending in a general northerly direction along the route of Central Maine Power Company's electric line as now constructed to and including the meter pole, so called, on which Central Maine Power Company's metering equipment is now located; together with the right to repair, replace and maintain its metering equipment as the same is now located on said meter pole;

(e) Beginning at said junction pole and extending in a general northwesterly and westerly direction along the route of Central Maine Power Company's electric line as now constructed to the easterly line of Central Maine Power Company's Mallison Substation lot.

Subject also for the benefit of Central Maine Power Company, its successors and assigns, the right to cut, trim and remove such trees, branches and underbrush, for a distance of fifty (50) feet on each side of Central Maine Power Company's said electric lines as now constructed in the above described locations, as in the opinion of Central Maine Power Company, its successors and assigns, will interfere with or endanger the operation of said electric lines; except such part of said strips as is located outside the limits of the premises hereby conveyed.

The Grantee, its successors and assigns, will not permit any building, structure or material to be placed within the limits of any or all of said strips which in the opinion of Central Maine Power Company, its successors and assigns, will interfere with or endanger the operation or maintenance of any or all of said electric lines, excepting such buildings and structures as are now located within the limits of any or all of said strips.

Also excepting and reserving to Central Maine Power Company, its successors and assigns, a distribution line as the same is now located within the limits of the premises hereby conveyed, extending from the northerly line of Central Maine Power Company's Mallison Substation lot in a general northerly direction to Mallison Street, so called, and extending in a westerly direction along the route of said distribution line as now located to the westerly boundary of the premises described in paragraph (1) hereof, and in an easterly direction along the route of said distribution line as now located to the easterly boundary of the premises described in paragraph (2) hereof; also two short spurs as now constructed in a westerly direction from said distribution line; together with the right to cut, trim and remove such trees, branches and underbrush as in the opinion of Central Maine Power Company, its successors and assigns, will interfere with or endanger the operation of such distribution line as now constructed.

Also excepting and reserving to Central Maine Power Company, its successors and assigns, the right to construct, erect, repair, replace, respace, operate, maintain and remove an electric line or lines in suitable and convenient locations to be agreed upon, extending over, along and across the premises described in paragraphs (1), (2) and (3) hereof, including the parcel shown as "A" on plan numbered 391-1 (hereinbefore mentioned) and described in said paragraph (2), extending from the southerly line of the premises described in paragraph (1) hereof at land of Stevi and Asta Penuk to the northerly line of said parcel shown as "A" on said plan and to the easterly line of other premises described in said paragraph (2); together with the right to cut, trim and remove such trees, branches and underbrush as in the opinion of the Central Maine Power Company, its successors and assigns, will interfere with or endanger the operation of said elecric line or lines as they may be constructed along the above described locations.

In the event that the said Central Maine Power Company, its successors and assigns, shall be unable to construct, erect, operate and maintain its said electric line or lines over, along and across the premises hereby conveyed in said agreed upon locations because of insufficient space, then the said Central Maine Power Company, its successors and assigns, and the Grantee, its successors and assigns, will coordinate facilities as they exist at such time, such coordination to be at the cost and expense of the Central Maine Power Company, its successors and assigns.

The Grantee covenants and agrees for itself, its successors and assigns, that it or they will, at the time such locations are agreed upon, upon the written request of the Central Maine Power Company, its successors and assigns, execute and deliver to the Central Maine Power Company, its successors and assigns, the necessary pole line easements covering the locations as agreed upon.

Subject to the reservation for the benefit of Central Maine Power Company, its successors and assigns of the right to enter at any and all times upon the premises hereby conveyed for the purpose of enjoying the foregoing rights and easements hereby excepted and reserved to the Central Maine Power Company, its successors and assigns.

This conveyance of parcels numbered Fourth is made subject to the limitation of use of the electric energy generated at this Mallison station set out in detail in the Indenture by and between Central Maine Power Company and the Mallison Corporation dated May 25, 1955 and recorded in said Registry of Deeds in Book 2232, Page 33.

Fifth:

All those rights, title, interests, easements and privileges located in the Towns of Windham, Westbrook and Gorham formerly known as Central Maine Power Company 115KV electric transmission line Section 107 and the easements referred to in the deed from Central Maine Power Company to Mallison Corporation dated December 22, 1965 and recorded in said Registry of Deeds in Book 2963, Page 429.

TO HAVE AND TO HOLD the same, together with all the privileges and appurtenances thereunto belonging, to it, the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever.

And the said Grantor Corporation does covenant with the said Scott Paper Company (S. D. Warren Division), its successors and assigns, that it has not delivered any unrecorded instrument to any third party or parties (excluding the Grantee) conveying any interest in or encumbering the real estate and interest in real estate listed and described herein.

IN WITNESS WHEREOF, the said Mallison Corporation has caused this instrument to be sealed with its Corporate seal and signed in its Corporate name by Lawrence J. Keddy, its President, thereunto duly authorized, this day of in the year of our Lord one thousand nine hundred and seventy-four.

Signed, Sealed & Delivered
in presence of

MALLISON CORPORATION

_____

By _____
Its President

STATE OF MAINE
CUMBERLAND, ss.

1974

Personally appeared the above named Lawrence J. Keddy, President of said Grantor Corporation as aforesaid and acknowledged the foregoing instrument to be his free act and deed in his said capacity and the free act and deed of said Corporation.

Before me,

_____
Attorney-at-Law

K N O W A L L M E N B Y T H E S E P R E S E N T S, That ALLOY STEEL MILLS, INC., a corporation organized and existing under the laws of the State of Maine and located at Windham in the County of Cumberland and State of Maine, in consideration of the sum of One Dollar ($1.00) and other valuable consideration paid by SCOTT PAPER COMPANY (S. D. WARREN DIVISION), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania and having a place of business at 89 Cumberland Street in the City of Westbrook, County of Cumberland and State of Maine, the receipt whereof if does hereby acknowledge, does hereby REMISE, BARGAIN, SELL and CONVEY, and forever QUIT-CLAIM unto the said Scott Paper Company (S. D. Warren Division), its successors and assigns forever, certain easements in the Town of Windham, County of Cumberland and State of Maine hereinafter defined:

1. A right-of-way sixteen (16) feet wide to be used in common with others so entitled to and from Gambo Road to and from the "40 foot pole line right-of-way" crossing said Alloy Steel Mills, Inc. premises and to and from "Atlas Land Tract Two", located and defined and to be for the purposes set forth in the easement described as the "South Road extending from Gambo Road to Atlas Tract Two" in an agreement dated May 24, 1946 and recorded in the Cumberland County Registry of Deeds in Book 1827, Page 1. The location of said "South Road" appears in the Plan of property in Windham and Gorham made for Small Business Administration by H. I. & E. C. Jordan dated January 19, 1960 and recorded in the Cumberland County Registry of Deeds in Plan Book 52, Page 58.

2. Alloy Steel Mills, Inc. agrees for itself, its successors and assigns, that:

(a) As to that portion of its existing structure which is within the limits of the "40 foot pole line right-of-way" any additions to, repairs on or remodeling of shall be done with noncombustible materials, and no part of any such additions or repaired or remodeled structure within said right-of-way shall be higher above grade than the existing structure. Provided, however, that the height of the existing structure may be increased if the transmission and intelligence lines within said "40 foot pole line right-of-way" are moved at the expense of Alloy Steel Mills, Inc., its successors or assigns, in such manner that the said lines are so located above any structure as to comply with all applicable laws, regulations and codes.

(b) In the event of the voluntary destruction or demolition of the existing structure, no replacement structure shall be erected within the limits of said "40 foot pole line right-of-way."

3. Alloy Steel Mills, Inc. agrees for itself, its successors and assigns, that:

(a) It and they shall and will hold harmless the Scott Paper Company, its successors and assigns from any claims for injury or damage to any persons or property which may be incurred as the result of the construction and maintenance of the said structure on a portion of said "40 foot pole line right-of-way."

(b) The Grantee, its successors and assigns, shall and will have unimpeded access to that portion of the existing structure within said "40 foot pole line right-of-way" whenever required for the purpose of repairing or replacing the wires for conducting electricity or intelligence over and above said structure.

Reference is made to the deed from Lawrence J. Keddy to Alloy Steel Mills, Inc. dated November 9, 1972 and recorded in the Cumberland County Registry of Deeds in Book 3323, Page 290.

TO HAVE AND TO HOLD the same, together with all the privileges and appurtenances thereunto belonging, to it, the said Scott Paper Company (S. D. Warren Division), its successors and assigns, forever.

And the said Grantor corporation does covenant with the said Scott Paper Company (S. D. Warren Division), its successors and assigns, that it has not delivered any unrecorded instrument to any third party or parties (excluding the Grantee) conveying any interest in or encumbering the real estate and interest in real estate listed and described herein.

IN WITNESS WHEREOF, the said ALLOY STEEL MILLS, INC. has caused this instrument to be sealed with its corporate seal and signed in its corporate name by Lawrence J. Keddy, its President, thereunto duly authorized, this day of in the year of our Lord one thousand nine hundred and seventy-four.

Signed, Sealed and Delivered
in the Presence of:

ALLOY STEEL MILLS, INC.

_____

By _____
Its President

STATE OF MAINE

CUMBERLAND, s.s. , 1974

Personally appeared the above named Lawrence J. Keddy, President of said grantor corporation as aforesaid, and acknowledged the foregoing instrument to be his free act and deed in his said capacity, and the free act and deed of said corporation.

Before me,

_____
Justice of the Peace
Notary Public

S. D. WARREN
A DIVISION OF SCOTT PAPER COMPANY

October 3, 1974

Mr. Lawrence J. Keddy
c/o Power Service & Supply, Inc.
877 Main Street
So. Windham, Maine

Dear Mr. Keddy:

As required in the purchase and sales agreement that we have been negotiating, I have today completed an inspection of the condition of the stations, lines, and appurtenant facilities described in that agreement. I was accompanied by William F. Foley, electrical engineer, and the opinions contained in this letter are shared by us both.

We inspected for any defects which would be required to bring the stations to such a state of good repair as existed on March 15, 1974 and that in our opinion would cost more than $500.00 to repair. Excepting the one item specifically referred to in the agreement (transmission line at Gambo Falls) we found no such defects.

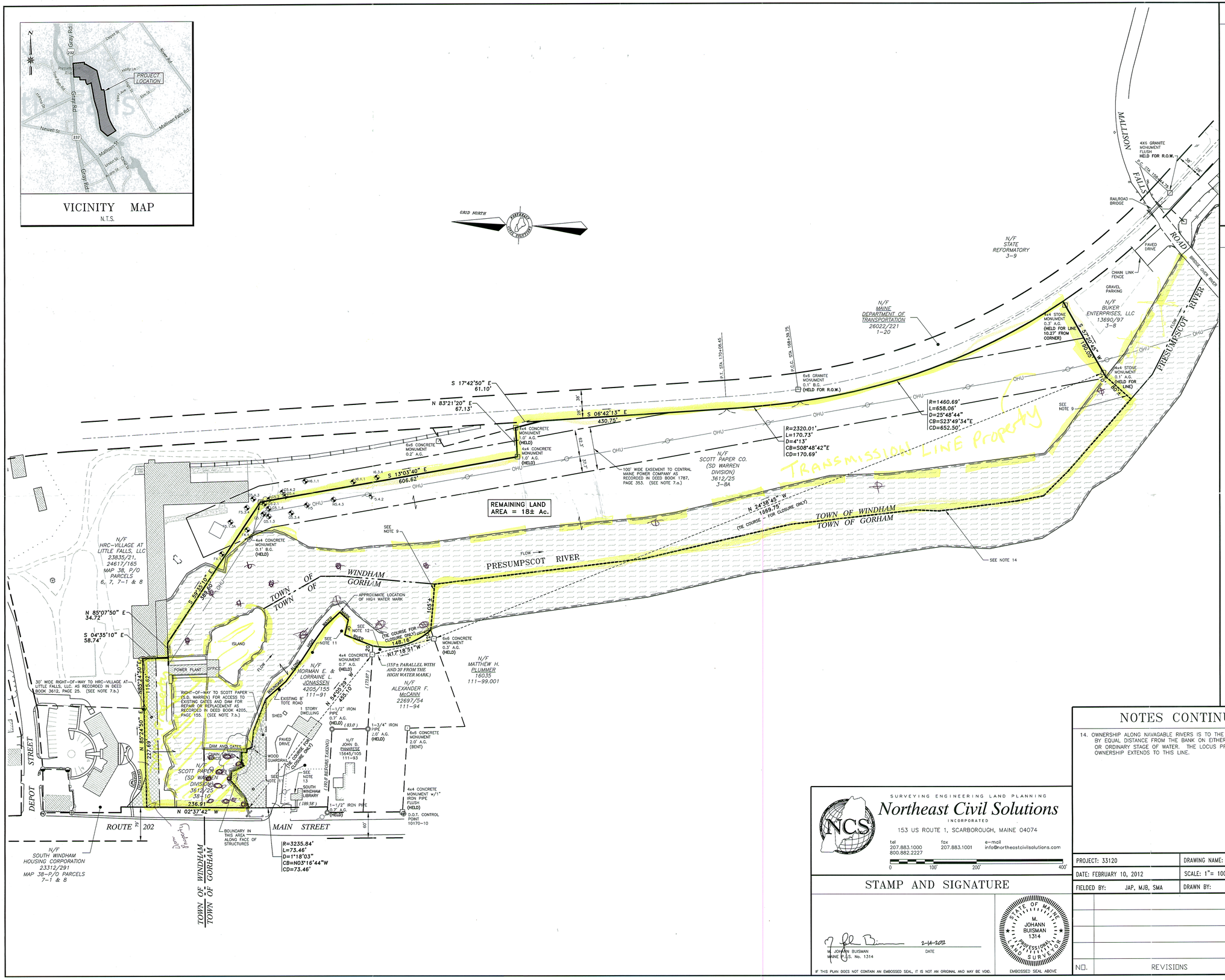
Sincerely,

S. D. WARREN COMPANY

David L. Rolfe
Manager of Utilities

DLR:jmr

VICINITY MAP
N.T.S.



LEGEND

	FOUND IRON PIPE (SIZE & TYPE AS NOTED)
	FOUND MONUMENT (SIZE & TYPE AS NOTED)
	FOUND DRILL HOLE
	FOUND IRON ROD
	CAPPED REBAR FOUND (NCS INC PLS 1314)
	SOIL TEST PIT
	UTILITY POLE (NUMBER AS NOTED)
	BOUNDARY LINE
	EASEMENT LINE
	EDGE OF WATER
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	RIGHT-OF-WAY LINE
	ABUTTER LINE
OHU	OVERHEAD UTILITY
N/F	NOW OR FORMERLY OWNED BY
1234/567	DEED BOOK AND PAGE (CCRD)
12-34	TAX MAP-LOT
(123.45)	PARENTHESIS DENOTE RECORD DATA
	TIE COURSE

NOTES

1. THE BASIS OF BEARING FOR THIS SURVEY IS MAINE STATE COORDINATE SYSTEM, MAINE WEST ZONE 2000, GRID NORTH.
2. DEED AND PLAN BOOK REFERENCES ARE TO THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
3. RECORD OWNERSHIP OF THE PARCEL SURVEYED CAN BE FOUND IN THE FOLLOWING DEEDS:
   a. FROM LAWRENCE J. KEDDY TO SCOTT PAPER COMPANY (S.D. WARREN DIVISION) DATED OCTOBER 18, 1974 AND RECORDED IN DEED BOOK 3612, PAGE 25.
   b. FROM MALLISON CORPORATION TO SCOTT PAPER COMPANY (S.D. WARREN DIVISION) DATEDOCTOBER 18, 1974 AND RECORDED IN DEED BOOK 3612, PAGE 30.
4. REFERENCE IS MADE TO THE FOLLOWING PLANS:
   a. "PLAN OF CONVEYANCE OF PROPERTY AND EASEMENTS FROM LAWRENCE J. KEDDY TO SCOTT PAPER COMPANY – S.D. WARREN CO. DIVISION" BY LAWRENCE P. ROLFE, DATED 1974, RECORDED IN PLAN BOOK 102, PAGE 34.
   b. "PLAN OF CONVEYANCE OF PROPERTIES AND EASEMENTS MALLISON CORP. TO SCOTT PAPER CO. – S.D. WARREN CO. DIVISION" BY LAWRENCE P. ROLFE, DATED 1974, RECORDED IN PLAN BOOK 102, PAGE 32.
   c. "RIGHT-OF-WAY AND TRACK MAP OF THE PORTLAND & OGDENSBURY RY. OF THE MAINE CENTRAL RAILROAD COMPANY" BY OFFICE OF CHIEF ENGINEER, PORTLAND, MAINE, DATED JUNE 30, 1916, VOLUME 16, SHEET 4.
   d. "FINAL MAJOR SUBDIVISION PLAN – VILLAGE AT LITTLE FALLS" BY NORTHEAST CIVIL SOLUTIONS, INC., DATED OCTOBER 10, 2007 (REVISION #4), RECORDED IN PLAN BOOK 207, PAGE 654.
   e. "EXISTING CONDITIONS PLAN – MALLISON FALLS BRIDGE" BY NORTHEAST CIVIL SOLUTIONS, INC., DATED NOVEMBER 11, 2011, NOT RECORDED.
   f. "AMENDED SUBDIVISION PLAN – RIVER VIEW SUBDIVISION" BY PINKHAM & GREER, DATED OCTOBER 22, 1998, RECORDED IN PLAN BOOK 199, PAGE 488.
   g. "STATE OF MAINE D.O.T. RIGHT-OF-WAY MAP, STATE HIGHWAY "4", FEDERAL AID PROJECT NO. BH-A017(000)X", DATED AUGUST, 2003, D.O.T. FILE NO. 3-499.
5. THE PARCELS SURVEYED ARE IDENTIFIED ON THE TOWN OF GORHAM TAX ASSESSOR'S MAP 111, PARCEL 91 AND WINDHAM TAX ASSESSOR'S MAP 3, PARCEL 8A AND MAP 38, PARCEL 10.
6. THE WIDTH AND LAYOUT OF MAIN STREET (ROUTE 202) WAS TAKEN FROM THE PLAN REFERENCED IN NOTE 4.c. ABOVE.
7. REFERENCE IS MADE TO THE FOLLOWING EASEMENTS OF RECORD:
   a. A 100' WIDE EASEMENT TO CENTRAL MAINE POWER COMPANY, DATED JULY 25, 1945, RECORDED IN DEED BOOK 1787, PAGE 353.
   b. A RIGHT-OF-WAY ON FOOT AND WITH VEHICLES TO REPAIR AND REBUILD THE EXISTING DAM AND GATES, DATED APRIL 19, 1978, RECORDED IN DEED BOOK 4205, PAGE 155.
   c. A 30' WIDE RIGHT-OF-WAY FOR VEHICLES AND PEDESTRIANS FROM MAIN STREET TO THE MAIN FACTORY BUILDING, DATED OCTOBER 18, 1978, RECORDED IN DEED BOOK 3612, PAGE 25.
   d. ANY OTHER EASEMENTS OF RECORD NOT SHOWN ON THIS PLAN.
8. THIS SURVEY WAS CONDUCTED WITH 6 INCHES OF SNOW ON THE GROUND.
9. THERE ARE SEVERAL METHODOLOGIES POSSIBLE TO SOLVE THE RIPARIAN LINE INTERSECTION. THE PERPENDICULAR METHOD WAS USED AND SHOWN ON THIS PLAN.
10. THE UTILITIES SHOWN ON THIS PLAN WERE FROM FIELD OBSERVATION ONLY. THERE MAY BE OTHER UTILITIES EXISTING THAT ARE NOT SHOWN. CONTACT DIG-SAFE (888)DIG-SAFE PRIOR TO ANY EXCAVATION WORK.
11. THIS PROPERTY (INCLUDING THE STRIP IN NOTE 12 BELOW) WAS CONVEYED FROM SCOTT PAPER CO. (S.D. WARREN DIVISION) TO JONASSEN BY DEED DATED APRIL 19, 1978 AND RECORDED IN DEED BOOK 4205, PAGE 155. THE CONVEYANCE ONLY INCLUDES PROPERTY LANDWARD OF THE HIGH WATER MARK OF THE PRESUMPSCOT RIVER TO THE BOUNDARY LINES SHOWN HEREON AND DOES NOT INCLUDE ANY PART OF THE DAM, GATES OR ABUTMENTS THAT MAY BE ON THE PHYSICAL PROPERTY.
12. THIS 20'± STRIP FROM THE HIGH WATER MARK OF THE PRESUMPSCOT RIVER TO THE MONUMENTS SHOWN WAS CONVEYED FROM JONASSEN TO LEACH (NOW McCANN) BY DEED DATED APRIL 19, 1995 AND RECORDED IN DEED BOOK 12222, PAGE 136.
13. THE LAND THAT THIS LIBRARY BUILDING AND PARKING AREA IS ON BELONGS TO JONASSEN (TAX MAP 111, PARCEL 91). FOR OWNERSHIP OF THE BUILDING AND ACCESS EASEMENT TO IT, REFER TO DEED BOOK 10174, PAGES 300 & 301.

NOTES CONTINUED

14. OWNERSHIP ALONG NAVAGABLE RIVERS IS TO THE THREAD AS DEFINED BY EQUAL DISTANCE FROM THE BANK ON EITHER SIDE AT NATURAL OR ORDINARY STAGE OF WATER. THE LOCUS PROPERTY'S OWNERSHIP EXTENDS TO THIS LINE.

THIS DRAWING IS THE PROPERTY OF SAPPI FINE PAPER, AND IS TO BE RETURNED AFTER ITS USE. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS EXPRESSLY LOANED AND IS NOT TO BE REDISTRIBUTED, COPIED OR DISCLOSED TO OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF SAPPI FINE PAPER.

SURVEYING ENGINEERING LAND PLANNING
Northeast Civil Solutions
INCORPORATED
153 US ROUTE 1, SCARBOROUGH, MAINE 04074
tel 207.883.1000 800.882.2227
fax 207.883.1001
e-mail info@northeastcivilsolutions.com

0 100' 200' 400'

STAMP AND SIGNATURE

M. JOHANN BUISMAN
MAINE P.L.S. No. 1314

2-14-2012
DATE

STATE OF MAINE M. JOHANN BUISMAN 1314 PROFESSIONAL LAND SURVEYOR

EMBOSSED SEAL ABOVE

IF THIS PLAN DOES NOT CONTAIN AN EMBOSSED SEAL, IT IS NOT AN ORIGINAL AND MAY BE VOID.

PROJECT: 33120	DRAWING NAME: 33120.DWG
DATE: FEBRUARY 10, 2012	SCALE: 1"= 100'
FIELDED BY: JAP, MJB, SMA	DRAWN BY: JAP

NO.	REVISIONS	MADE BY / CHK.BY	DATE

sappi S. D. WARREN CO. WESTBROOK PLANT
WESTBROOK MAINE

DESIGN		SCALE	1"=100'
DRAWN	JAP	JOB ORDER	
APPROVED	TPH	DEPT	876-118
CHECKED		DATE	2/2012

BUILDING NO. 118
CENTRAL FALLS STATION
GENERAL BOUNDARY SURVEY
W/SAMPLE LOCATIONS

EQUIPMENT SYSTEMS NUMBER	000-00.60-000 876-000.60-015 876-118.60-000 876-000.60-000 814-01.60-013
SAP FUNCTIONAL LOCATION	WE-BU-118-080
SAP MATERIAL NUMBER	

DRAWING NO.	SHT NO.	REV
CD-67192	1 of 1	–

E:\Local Projects\33000\33120-Sappi-Windham\dwg\33120.dwg

APPENDIX 5

EDR Radius Report© with Geocheck®

Little Falls Hydro
Depot Street
Windham, ME 04062

Inquiry Number: 03316917.2r
May 04, 2012

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

DEPOT STREET
WINDHAM, ME 04062

COORDINATES

Latitude (North):	43.7341000 - 43˚ 44' 2.76''
Longitude (West):	70.4238000 - 70˚ 25' 25.68''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	385335.7
UTM Y (Meters):	4843109.5
Elevation:	97 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	43070-F4 GORHAM, ME
Most Recent Revision:	1975

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2009
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Solid Waste Facility List
LCP ..... Municipal Landfill Closure Database

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ..... Aboveground Storage Tanks
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing

EXECUTIVE SUMMARY

State and tribal Brownfields sites

BROWNFIELDS ..... Remediation Sites List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
SWRCY ..... Recycling Facilities
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
DEL SHWS ..... Sites Removed from the Uncontrolled Sites List
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System
LIENS ..... Environmental Liens Information Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Hazardous Material and Oil Spill System Database

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
MINES ..... Mines Master Index File
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ..... Section 7 Tracking Systems
ICIS ..... Integrated Compliance Information System
PADS ..... PCB Activity Database System
MLTS ..... Material Licensing Tracking System
RADINFO ..... Radiation Information Database
FINDS ..... Facility Index System/Facility Registry System
RAATS ..... RCRA Administrative Action Tracking System
NPDES ..... Wastewater Facilities Listing
UIC ..... Underground Injection Control

EXECUTIVE SUMMARY

DRYCLEANERS..... Drycleaner Facilities
AIRS..... Emissions Inventory Data
TIER 2..... Tier 2 Information Listing
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
COAL ASH DOE..... Sleam-Electric Plan Operation Data
PCB TRANSFORMER..... PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 12/27/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEDDY MILL	7 DEPOT STREET	NW 0 - 1/8 (0.055 mi.)	A5	17

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Uncontrolled Hazardous Substance Sites Program List of Investigations.

A review of the SHWS list, as provided by EDR, and dated 01/19/2012 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAINE CORRECTIONAL CENTER	***RIVER ROAD***	***SE 1/4 - 1/2 (0.476 mi.)***	***42***	***146***
: Referred to Other Programs				

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Hazardous Material and Oil Spill System Database (H.O.S.S.).

A review of the LUST list, as provided by EDR, and dated 02/04/2012 has revealed that there are 13 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTBROOK TRANSMISSION	13 DEPOT ST	NW 0 - 1/8 (0.055 mi.)	A7	24
LITTLE FALLS MOBIL (KIMBALLS'	***20 MOSHER RD. (RT. 237)***	***S 0 - 1/8 (0.116 mi.)***	***D12***	***38***
LITTLE FALLS MOBIL	20 MOSHER RD - RT 202	S 1/8 - 1/4 (0.137 mi.)	D19	66
LITTLE FALLS MOBIL	20 MOSHER RD	S 1/8 - 1/4 (0.137 mi.)	D20	69
LAMPRONS LITTLE FALLS MINI MAR	688 GRAY RD, RT. 202 CI	S 1/8 - 1/4 (0.151 mi.)	G26	93
LITTLE FALLS MINI MART	688 GRAY RD. RT 202	S 1/8 - 1/4 (0.152 mi.)	G28	97
LAMPRON LIL MART	688 GRAY RD - RT 237	S 1/8 - 1/4 (0.152 mi.)	G29	106
LITTLE FALLS MINI MART GULF	688 GRAY RD - RT 202	S 1/8 - 1/4 (0.152 mi.)	G31	120
LITTLE FALLS MINI MART	688 GRAY RD., RT. 202	S 1/8 - 1/4 (0.152 mi.)	G32	123
EMERGENCY MANAGEMENT BUNKER	22 HIGH STREET	SE 1/8 - 1/4 (0.182 mi.)	35	129
MAINE CEDAR LOG HOMES	35 MAIN STREET	NNW 1/8 - 1/4 (0.213 mi.)	H39	140
MAINE CORRECTIONAL CENTER	***RIVER ROAD***	***SE 1/4 - 1/2 (0.476 mi.)***	***42***	***146***
RICH TOOL & DIE CO	***3 MALLISON FALLS RD***	***ESE 1/4 - 1/2 (0.484 mi.)***	***43***	***149***

LAST: A listing of leaking aboveground storage tanks.

A review of the LAST list, as provided by EDR, and dated 02/04/2012 has revealed that there are 15 LAST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LORRAINE JONASSEN	859 GRAY ROAD	WSW 0 - 1/8 (0.021 mi.)	1	7
SOUTH WINDHAM COMMUNITY CHURCH	15 MAIN STREET	NW 0 - 1/8 (0.054 mi.)	A2	10
U.S. BANK N.A., TRUSTEE	1 MECHANIC ST	NW 0 - 1/8 (0.058 mi.)	A9	30
REAL SCHOOL	55 HIGH ST	E 0 - 1/8 (0.113 mi.)	C11	35
LITTLE FALLS MOBIL (KIMBALLS'	***20 MOSHER RD. (RT. 237)***	***S 0 - 1/8 (0.116 mi.)***	***D12***	***38***
BILL ESKILSON	46 HIGH ST	E 0 - 1/8 (0.118 mi.)	C13	53
RESIDENCE	771 GRAY ROAD	SSW 0 - 1/8 (0.120 mi.)	B14	55

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LEE MICHAUD	751 GRAY RD	SSW 1/8 - 1/4 (0.125 mi.)	17	62
LOUISE SICLANO	720 GRAY RD	SSW 1/8 - 1/4 (0.137 mi.)	22	82
SHAW RESIDENCE	134 MAIN ST., RT. 202	NW 1/8 - 1/4 (0.137 mi.)	F23	85
WILLIAMS OIL CO.	26 MOSHER RD.	S 1/8 - 1/4 (0.143 mi.)	D24	88
JTL OIL CO WILLIAMS OIL	26 MOSHER RD ROUTE 237	S 1/8 - 1/4 (0.143 mi.)	D25	90
SHAUGHNESSY, MICHAEL	32 MAIN ST.	NNW 1/8 - 1/4 (0.173 mi.)	F33	125
PIETER VAN EEKELEN	14 PLEASANT ST	SSW 1/8 - 1/4 (0.191 mi.)	37	135
KELLY COLARUSSO	25 HANNAH DR	SW 1/4 - 1/2 (0.266 mi.)	41	143

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 02/01/2012 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEPOT ENERGY	13 DEPOT STREET	NW 0 - 1/8 (0.055 mi.)	A8	29
HAWKES GAS STATION	807 GRAY RD	SSW 0 - 1/8 (0.103 mi.)	B10	34
CUMBERLAND COUNTY CIVIL	85 HIGH ST	NE 1/8 - 1/4 (0.126 mi.)	18	64
PETRO KING	20 MOSHER RD	S 1/8 - 1/4 (0.137 mi.)	D21	77
LAMPRON LIL MART	688 GRAY RD	S 1/8 - 1/4 (0.152 mi.)	G30	113
DEPOT ENERGY INC	29 DEPOT ST	NNE 1/8 - 1/4 (0.183 mi.)	36	133
LC ANDREW INC	35 MAIN ST	NNW 1/8 - 1/4 (0.213 mi.)	H38	138

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Land Use Restrictions in place.

A review of the INST CONTROL list, as provided by EDR, and dated 01/19/2012 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
L.C. ANDREWS LUMBER MILL	***MAIN STREET***	***N 1/8 - 1/4 (0.181 mi.)***	***34***	***128***

State and tribal voluntary cleanup sites

VCP: A list of sites where the necessary investigation and/or remedation activities have been completed to the Department's satisfaction and the applicants to the VRAP have been issued final certification documents. The list does not include those sites that are currently participating in the VRAP but have not yet received certification.

A review of the VCP list, as provided by EDR, and dated 01/19/2012 has revealed that there are 3 VCP

sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEDDY MILL	***7 DEPOT STREET***	***NW 0 - 1/8 (0.055 mi.)***	***A4***	***14***
LITTLE FALLS MINI-MART	***688 GRAY ROAD (RTE. 202***	***S 1/8 - 1/4 (0.152 mi.)***	***G27***	***96***
L.C. ANDREWS LUMBER MILL	***MAIN STREET***	***N 1/8 - 1/4 (0.181 mi.)***	***34***	***128***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/27/2011 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7 DEPOT STREET	7 DEPOT STREET	NW 0 - 1/8 (0.055 mi.)	A3	12

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: The Sites List Database is the public record of information regarding properties that have been, are now, or are planned to be addressed by the Division of Remediation of the Bureau of Remediation and Waste Management. This database is not intended to be a comprehensive, all-inclusive source of information regarding the properties listed therein.

A review of the ALLSITES list, as provided by EDR, and dated 01/19/2012 has revealed that there are 4 ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEDDY MILL	***7 DEPOT STREET***	***NW 0 - 1/8 (0.055 mi.)***	***A4***	***14***
LITTLE FALLS MINI-MART	***688 GRAY ROAD (RTE. 202***	***S 1/8 - 1/4 (0.152 mi.)***	***G27***	***96***
L.C. ANDREWS LUMBER MILL	***MAIN STREET***	***N 1/8 - 1/4 (0.181 mi.)***	***34***	***128***
MAINE CORRECTIONAL CENTER	***RIVER ROAD***	***SE 1/4 - 1/2 (0.476 mi.)***	***42***	***146***

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/10/2011 has revealed that there is

EXECUTIVE SUMMARY

1 RCRA-NonGen site within approximately 0.25 miles of the target property.

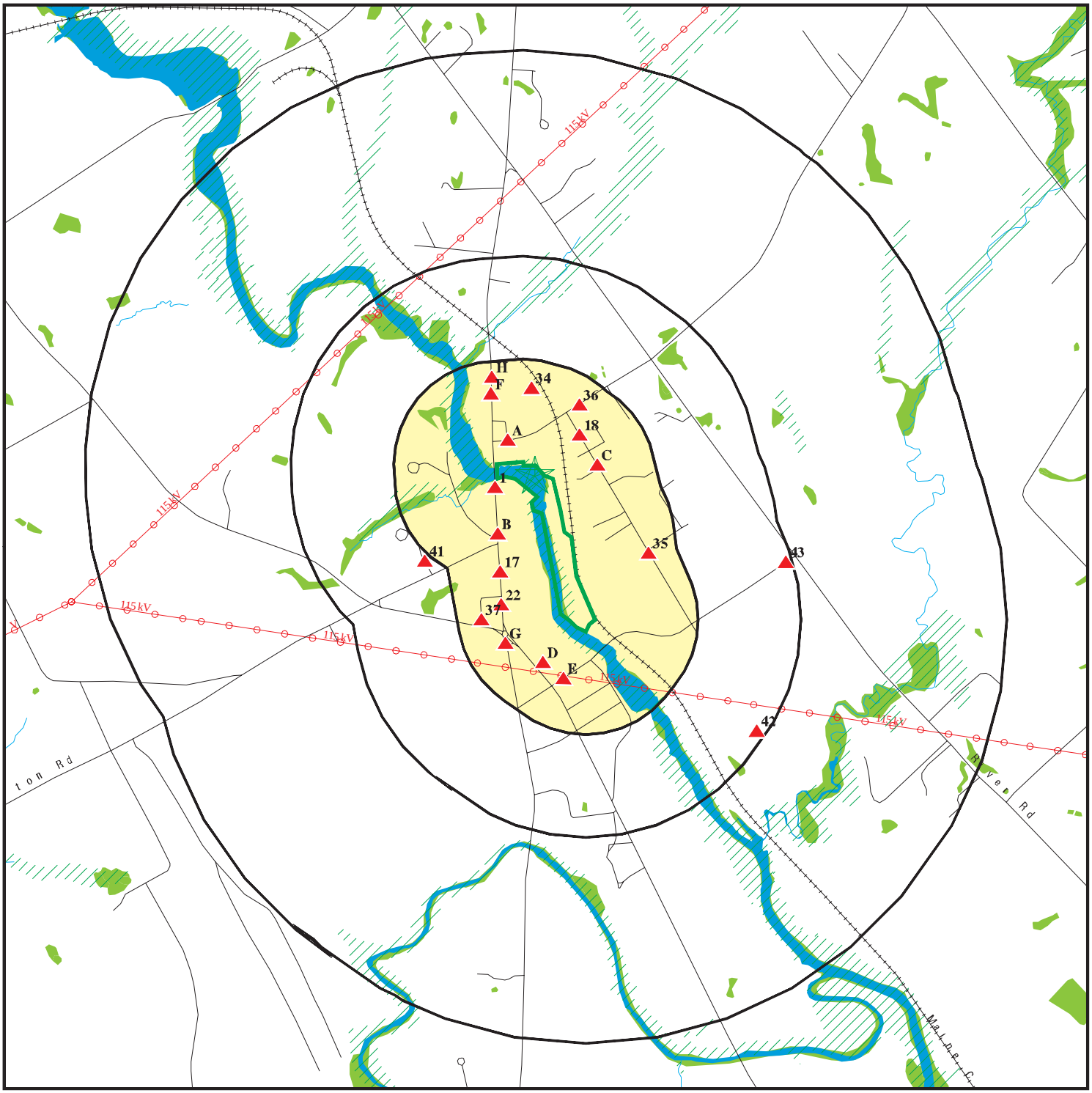
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICH TOOL & DIE CO	***55 MALLISON ST***	***S 0 - 1/8 (0.125 mi.)***	***E15***	***58***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
ROUTE 115	HWS,ALLSITES
WINDHAM HIGH SCHOOL(MODULAR CLASS	LAST
BOMB SHELTER	LAST
PRATT - ABBOTT NORTH WINDHAM	DRYCLEANERS
MAINE COASTAL SERV	CERCLIS-NFRAP
WINDHAM LANDFILL TRANSFER STA	LF
C N BROWN (NORTH WINDHAM CAR WASH)	LUST
D & J EXCAVATING	LUST
C N BROWN BIG APPLE	LUST
CUMBERLAND FARMS #1836	LUST
MYSTERY GASOLINE DISCHARGE	LUST,SPILLS
MAINE CORRECTIONAL CENTER	LUST,SPILLS
RICH TOOL & DIE	LUST
WINDHAM PUBLIC WORKS	LUST,SPILLS
WINDHAM PUBLIC SAFETY FACILITY	UST
JORDANS NORGE VILLAGE	FINDS,RCRA-NLR
MCCULLOUGHS GARAGE	RCRA-CESQG
LITTLE SEBAGO LAKE	ERNS
REYNOLDS SPORTS CENTER	MANIFEST
THE GARAGE, INC.	MANIFEST

OVERVIEW MAP - 03316917.2r



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Little Falls Hydro	CLIENT: TRC Environmental Consultants
ADDRESS: Depot Street Windham ME 04062	CONTACT: Allison Drouin INQUIRY #: 03316917.2r
LAT/LONG: 43.7341 / 70.4238	DATE: May 04, 2012 3:09 pm

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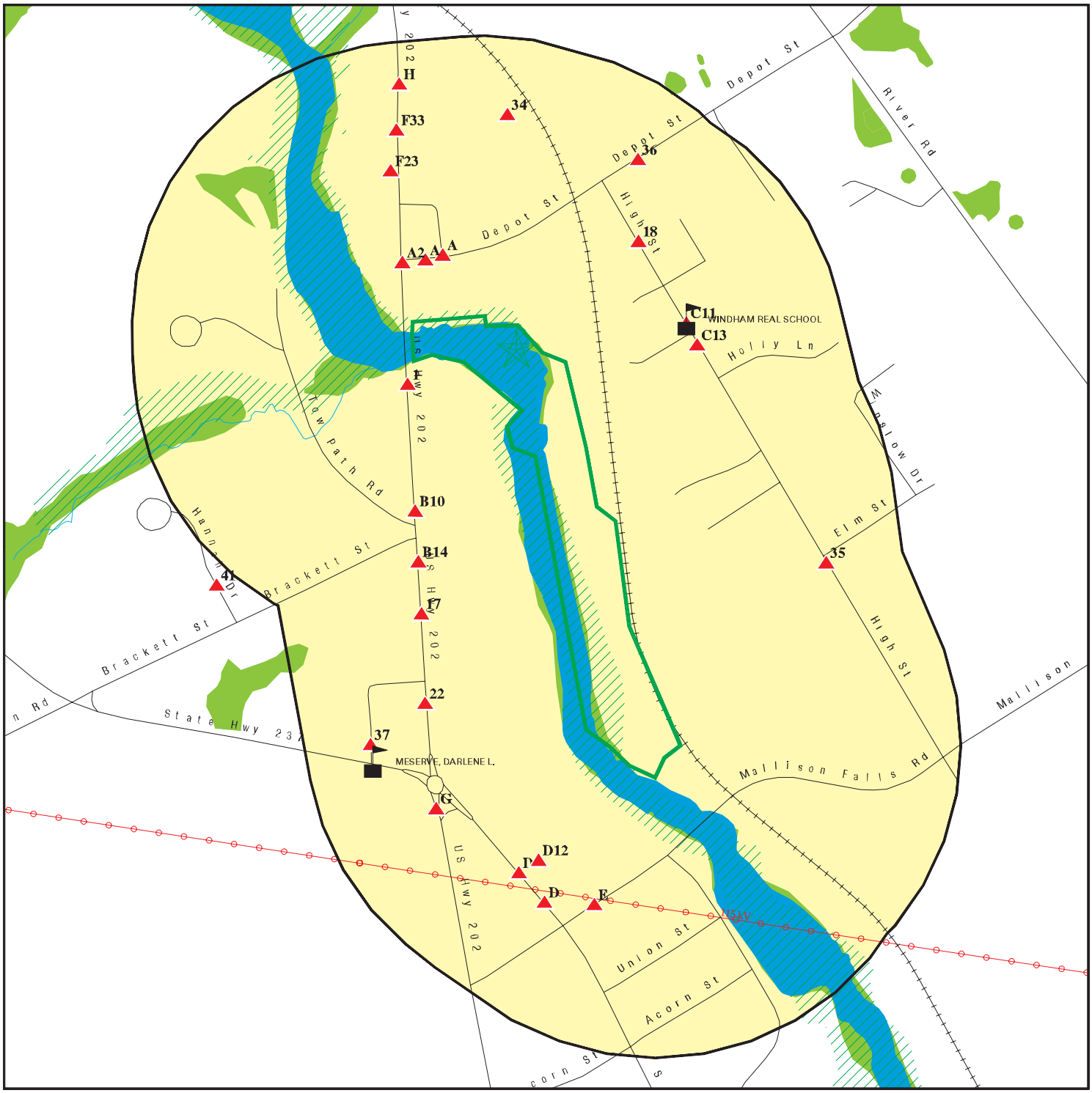
DETAIL MAP - 03316917.2r



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Little Falls Hydro	CLIENT: TRC Environmental Consultants
ADDRESS: Depot Street Windham ME 04062	CONTACT: Allison Drouin
	INQUIRY #: 03316917.2r
LAT/LONG: 43.7341 / 70.4238	DATE: May 04, 2012 3:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		1	0	0	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	1	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
LCP	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		2	9	2	NR	NR	13
LAST	0.500		7	7	1	NR	NR	15
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		2	5	NR	NR	NR	7

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	1	0	NR	NR	1
State and tribal voluntary cleanup sites								
VCP	0.500		1	2	0	NR	NR	3
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		1	0	0	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		1	2	1	NR	NR	4
DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		1	0	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 WSW < 1/8 0.021 mi. 111 ft. | **LORRAINE JONASSEN 859 GRAY ROAD GORHAM, ME** | **LAST** | **S111435983 N/A**

Relative: Higher

Actual: 118 ft.

LAST:

Event:

Spill Number:	P-130-2011
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	False
Create Date:	03/04/2011
Create By:	EIFDELAN
Modify Date:	12/12/2011
Modify By:	12/12/2011
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported
Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	6
Reporter Type:	Contractor/Consultant
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	14
Spill Cause:	Accident - Other
Material Disposal Info:	Disposed of contaminated snow and soil.

Change:

Description:	Report Status change from DRV to FR
Date Change:	12/12/2011
Changed By:	EIJWOODA
Description:	Report Status change from DR to DRV
Date Change:	07/06/2011
Changed By:	EIFDELAN
Description:	Report Created with Report Status = DR
Date Change:	03/04/2011
Changed By:	EIFDELAN

Contact:

Contact Type:	Other Contact
Potential RP:	False
Name:	Not reported

LORRAINE JONASSEN (Continued) **S111435983**

Title:	Not reported
Company:	ALLSTATE ENVIRONMENTAL SERVICES, INC.
Address:	PO BOX 291
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	LORRAINE L JONASSEN
Title:	HOMEOWNER
Company:	Not reported
Address:	859 GRAY ROAD
City,State:	GORHAM,ME
Country:	USA
Zipcode:	Not reported
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	FRANKI B DELANEY

Primary Employee:	False
Name:	PETER M EREMITA

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	130
Spill Year:	2011
Create Date:	03/04/2011
Created By:	EIFDELAN
Modify Date:	03/04/2011
Modify By:	EIFDELAN
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	02/21/2011
Log Rep Prod Cd:	01
Log Rep Prod:	#1 Fuel Oil - Kerosene
Log Emp Name:	FRANKI B DELANEY
Location:	859 Gray Road.
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Broken filter.

Material Recovered:

Material Recovered Type:	CS

LORRAINE JONASSEN (Continued) **S111435983**

Material Recovered:	Contaminated Soil
Material Amount:	20.43
Material Units:	tons
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Vacuum Trucks
Recovery Method:	Excavation

Product:

Product Code:	#1 Fuel Oil - Kerosene
Product Other:	Not reported
Product Amt:	214
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	Spill Debris.
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	03/04/2011
Description:	CPRC.
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	03/04/2011
Description:	Expense Tracking
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	03/04/2011

A2 NW < 1/8 0.054 mi. 286 ft. | **SOUTH WINDHAM COMMUNITY CHURCH**
15 MAIN STREET
WINDHAM, ME | **LAST** | **S104324694**
N/A

Site 1 of 8 in cluster A

Relative: Higher

Actual: 123 ft.

LAST:

Event:

Spill Number:	P-716-1997
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	False
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	12/07/2001
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	11/25/1997
Spill Date Unknown:	False
Spill Time Unknown:	False
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5250
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	2
Reporter Type:	Subject/Spiller
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	OTR
Inc Location:	Other - Religious
Inc Source Code:	Not reported
Inc Source:	Not reported
Spill Cause Code:	07
Spill Cause:	Mechanical Failure - Valve
Material Disposal Info:	WASTE TO MID MAINE WASTE ACTION CORP.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	SOUTH WINDHAM COMMUNITY CHURCH
Address:	15 MAIN STREET
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	Not reported
Phone/Ext:	/
Comments:	Not reported

SOUTH WINDHAM COMMUNITY CHURCH (Continued) **S104324694**

Primary Employee:

Primary Employee:	True
Name:	STEPHEN FLANNERY

File:

Spill Id:	P-716-1997
Date Created:	07/02/1998
Created By:	SPILLS
Date Modified:	06/26/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 26-JUN-07.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	716
Spill Year:	1997
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	11/25/1997
Spill Time Unk:	False
Spill Dt Unknown:	False
Log Rep Dt Tm:	11/25/1997
Log Rep Prod Cd:	01
Log Rep Prod:	#1 Fuel Oil - Kerosene
Log Emp Name:	STEPHEN FLANNERY
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	30
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported

SOUTH WINDHAM COMMUNITY CHURCH (Continued) **S104324694**

UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Sorbents

Product:

Product Code:	#1 Fuel Oil - Kerosene
Product Other:	Not reported
Product Amt:	30
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

A3 **7 DEPOT STREET** **US BROWNFIELDS** **1014476453**
NW **7 DEPOT STREET** **N/A**
< 1/8 **WINDHAM, ME 04062**
0.055 mi.
288 ft. **Site 2 of 8 in cluster A**

Relative:
Higher

Actual:
126 ft.

US BROWNFIELDS:

Recipient name:	Maine Department of Environmental Protection
Grant type:	Section 128(a) State/Tribal
Property name:	7 Depot Street
Property #:	Map 38, Lot 7
Parcel size:	6.93
Latitude:	43.734444
Longitude:	-70.423333
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Center of a Facility or Station
Datum:	Not reported
ACRES property ID:	110221
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	3916
Assessment funding source:	US EPA - State & Tribal Section 128(a) Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported

7 DEPOT STREET (Continued) **1014476453**

Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Supplemental Assessment
Ownership entity:	Private
Current owner:	Not reported
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	09-NOV-05
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Y
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported

7 DEPOT STREET (Continued) **1014476453**

Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	6.93
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N

Property Description: Developed in the 1700s, the building has been used as a saw mill, grist mill, manufactured wood board mill, and most recently a steel mill. The Site is currently vacant with the building in disrepair.

A4 **KEDDY MILL** **ALLSITES** **S108229412**
NW **7 DEPOT STREET** **SPILLS** **N/A**
< 1/8 **WINDHAM, ME** **VCP**
0.055 mi.
288 ft. **Site 3 of 8 in cluster A**

Relative:
Higher

Actual:
126 ft.

ALLSITES:

Status:	REMEDIATION NEEDED
Program Type:	VRAP
Lat/Long:	43.734543 / -70.42398
IC:	UNKNOWN

SPILLS:

Event:

Spill Number:	P-868-2005
Inc Tank Code:	N
Inc Tank:	None
Removal Flag:	False
Ust Registered Flag:	True
Ast Inside Flag:	False
Create Date:	10/27/2005
Create By:	EIAHEMEN
Modify Date:	11/01/2006
Modify By:	EITGALLA
Report Status:	FR
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Actual Spill Time Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
MCD Value:	5250
Further Response Action:	False
Spill Type Code:	H
Spill Type:	Hazardous Material Incident
Reporter Type Code:	6
Reporter Type:	Contractor/Consultant
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	ID
Inc Location:	Business - Industrial
Inc Source Code:	ET
Inc Source:	Utility - Electrical Transformer
Spill Cause Code:	19

KEDDY MILL (Continued) **S108229412**

Spill Cause: Discharge - Vandalism
Material Disposal Info: Environ

Change:
Description: Report Status change from DQA to FR
Date Change: 11/01/2006
Changed By: EITGALLA

Description: Report Created with Report Status = DR
Date Change: 10/27/2005
Changed By: EIAHEMEN

Description: Report Status change from DR to DRV
Date Change: 10/27/2005
Changed By: EIAHEMEN

Description: Report Status change from DRV to DQA
Date Change: 12/13/2005
Changed By: EISBERNA

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: VILLAGE AT LITTLE FALLS LLC
Address: 2 MARKET ST - 6TH FLOOR
City,State: PORTLAND,ME
Country: USA
Zipcode: 04101
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: ANN E HEMENWAY

File:
Spill Id: P-868-2005
Date Created: 11/03/2006
Created By: IMAGING
Date Modified: 11/03/2006
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 03-NOV-06.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Interior Surface

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 868

KEDDY MILL (Continued) **S108229412**

Spill Year:	2005
Create Date:	10/27/2005
Created By:	EIAHEMEN
Modify Date:	10/27/2005
Modify By:	EIAHEMEN
Log Spill Type:	Hazardous Material Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	07/05/2005
Log Rep Prod Cd:	71
Log Rep Prod:	PCB Oil
Log Emp Name:	ANN E HEMENWAY
Location:	Former Keddy Mill 7 Depot Street
Log Location Town:	WINDHAM
Log Tank Involved:	None
Notes:	Vandals knocked over several electrical components containing PCB oil

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	UNKNOWN
Recovery Method:	Sorbents

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported

Product:

Product Code:	PCB Oil
Product Other:	Not reported
Product Amt:	35
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	7/14/05 email from Todd Coffin
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported

KEDDY MILL (Continued) **S108229412**

File Size:	Not reported
File Modify Date:	10/27/2005
Description:	7/5/05 email from Todd Coffin
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	10/27/2005

VCP:

Facility ID:	REM01538
Facility status:	REMEDIATION NEEDED
Program Type:	VRAP
Lat/Long:	43.734543 / -70.42398
Inst Controls:	UNKNOWN

A5 **KEDDY MILL** **CERCLIS** **1014914815**
NW **7 DEPOT STREET** **MEN000106078**
< 1/8 **WINDHAM, ME 04062**
0.055 mi.
288 ft. **Site 4 of 8 in cluster A**

Relative:
Higher

Actual:
126 ft.

CERCLIS:

Site ID:	0106078
EPA ID:	MEN000106078
Facility County:	CUMBERLAND
Short Name:	KEDDY MILL
Congressional District:	Not reported
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	01
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	PA Start Needed
Non NPL Status Date:	20111116
Site Fips Code:	23005
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

KEDDY MILL (Continued) **1014914815**

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	11/16/2011
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

A6 **HRC VILLAGE AT LITTLE FALLS LLC** **MANIFEST** **S110491339**
NW **7 DEPOT ST** **N/A**
< 1/8 **SOUTH WINDHAM, ME 04062**
0.055 mi.
288 ft. **Site 5 of 8 in cluster A**

Relative:
Higher

Actual:
126 ft.

NY MANIFEST:

EPA ID:	MEP000018529
Country:	USA
Mailing Name:	HRC VILLAGE AT LITTLE FALLS LLC
Mailing Contact:	HRC VILLAGE AT LITTLE FALLS LLC
Mailing Address:	100 COMMERCIAL ST
Mailing Address 2:	Not reported
Mailing City:	PORTLAND
Mailing State:	ME
Mailing Zip:	04101
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-28
Trans1 Recv Date:	2010-06-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	9552.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974035JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-28
Trans1 Recv Date:	2010-06-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	7765.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974036JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Generator Ship Date:	2010-06-24
Trans1 Recv Date:	2010-06-24
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	11657.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974027JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-24
Trans1 Recv Date:	2010-06-24
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	9589.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974028JJK
Import Ind:	N
Export Ind:	N

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Discr Quantity Ind:	Y
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-24
Trans1 Recv Date:	2010-06-24
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	8836.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974029JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-06-28
Trans1 Recv Date:	2010-06-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	9607.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974030JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-07-19
Trans1 Recv Date:	2010-07-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-07-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	11512.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974032JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-07-19
Trans1 Recv Date:	2010-07-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-07-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	13299.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974033JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MER000500595
Trans2 State ID:	Not reported
Generator Ship Date:	2010-07-19
Trans1 Recv Date:	2010-07-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-07-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MEP000018529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	11439.0

HRC VILLAGE AT LITTLE FALLS LLC (Continued) **S110491339**

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003974034JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

A7 **WESTBROOK TRANSMISSION** **LUST** **S108393115**
NW **13 DEPOT ST** **N/A**
< 1/8 **WINDHAM, ME**
0.055 mi.
289 ft. **Site 6 of 8 in cluster A**

Relative:
Higher

Actual:
122 ft.

LUST:

Event:

Spill Number:	P-296-2005
Spill Cause:	Accident - Human Error
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	False
MCD Value:	5250
Create Date:	04/25/2005
Create By:	EICPAQUE
Modify Date:	02/03/2007
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Other Involved Party
Detection Method:	Visual Product
Inc Location:	Business - Commercial
Inc Source:	Other Source
Material Disposal Info:	Not reported

Change:

Description:	Report Status change from DQA to P
Date Change:	09/07/2006
Changed By:	EITGALLA
Description:	Report Status change from DR to DQA
Date Change:	09/20/2005

WESTBROOK TRANSMISSION (Continued) **S108393115**

Changed By: EIJWOODA

Description: Report Created with Report Status = DR
Date Change: 04/25/2005
Changed By: EICPAQUE

Description: Report Status change from P to FR
Date Change: 02/03/2007
Changed By: EITGALLA

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: JOSEPH KITTRELL
Title: Not reported
Company: Not reported
Address: 13 DEPOT ST
City,State: WINDHAM,ME
Country: USA
Zipcode: 04062
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: False
Name: TIMOTHY F WRIGHT

Primary Employee: True
Name: JON L WOODARD

File:
Spill Id: P-296-2005
Date Created: 02/05/2007
Created By: IMAGING
Date Modified: 02/05/2007
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 05-FEB-07.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 296
Spill Year: 2005
Create Date: 04/25/2005
Created By: EICPAQUE
Modify Date: 04/25/2005
Modify By: EICPAQUE
Log Spill Type: Oil Incident
Log Spill Datetime: Not reported

WESTBROOK TRANSMISSION (Continued) **S108393115**

Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	04/19/2005
Log Rep Prod Cd:	88
Log Rep Prod:	Oil - Other - Specified in Report
Log Emp Name:	JON L WOODARD
Location:	High Street
Log Location Town:	WINDHAM
Log Tank Involved:	None
Notes:	Not reported

Material Recovered:

Material Recovered Type:	NO
Material Recovered:	None
Material Amount:	0
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE
Recovery Method:	None

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported

Product:

Product Code:	Sulfuric Acid
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	False
Product Code:	Waste Oil/Used Motor Oil
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	True

Attachments:

Description:	Letter to Mr. Laskey
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported

WESTBROOK TRANSMISSION (Continued) **S108393115**

File Size: Not reported
File Modify Date: 09/20/2005

Description: Letters to Mr. Kittrell
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 09/20/2005

Description: Jaques Whitford site assessment
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 09/20/2005

Description: Letters from attorneys to Mr. Laskey
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 09/20/2005

Event:
Spill Number: P-696-1993
Spill Cause: Overfill
Spill Type: Oil Incident
Inc Tank: Underground Tank(s) Involved
Removal Flag: False
UST Registered Flag: False
MCD Value: 5250
Create Date: 12/07/2001
Create By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Report Status: Final Report
Actual Spill Datetime: 10/28/1993
Actual Spill Date Unknown: False
Number Wells At Risk: Not reported
Number Wells Impacted: Not reported
Dtree Completed Flag: False
Further Response Action: False
Reporter Type: Contractor/Consultant
Detection Method: Tank and/or Piping Removal
Inc Location: Business - Commercial
Inc Source: Not reported
Material Disposal Info: Not reported

Change:
Description: Report Created with Report Status = FR
Date Change: 12/07/2001
Changed By: SPILLS

Contact:
Contact Type: Subject/Spiller

WESTBROOK TRANSMISSION (Continued) **S108393115**

Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	ENERGY DEPOT
Address:	13 DEPOT STREET
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	JON WOODARD

File:

Spill Id:	P-696-1993
Date Created:	02/18/1994
Created By:	SPILLS
Date Modified:	07/24/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 24-JUL-07.
Reconcile Date:	04/08/2003
File Reconciled By:	LISA M. MOORE

Media Affected:

Medium:	Groundwater
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	696
Spill Year:	1993
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	10/28/1993
Spill Time Unk:	False
Spill Dt Unknown:	False
Log Rep Dt Tm:	10/28/1993
Log Rep Prod Cd:	22
Log Rep Prod:	Leaded Gasoline
Log Emp Name:	JON WOODARD
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported

WESTBROOK TRANSMISSION (Continued) **S108393115**

Material Recovered: Not reported
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: Not reported

Recovery Method: None

Spill Point:
Create Date: Not reported
Created By: Not reported
Modify Date: Not reported
Modify By: Not reported
Point Type Code: Not reported
UTM North: Not reported
UTM East: Not reported
GPS Unit: Not reported
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Not reported
GIS Object Id: Not reported
GIS Sync Flag: Not reported

Product:
Product Code: Leaded Gasoline
Product Other: Not reported
Product Amt: 0
Product Amt Unit: gals.
Product Amt Qualifier: ACTUAL
Primary Product: False

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

A8 **DEPOT ENERGY** **UST** **U001534470**
NW **13 DEPOT STREET** **N/A**
< 1/8 **WINDHAM, ME**
0.055 mi.
289 ft. **Site 7 of 8 in cluster A**

Relative:
Higher

Actual:
122 ft.

UST:
Facility ID: 18653
Facility Location2: WINDHAM
Facility Code: INDUSTRIAL
Fed Reg Ind: Yes
Owner Name: LASKEY, MERRILL
Owner Contact: Not reported
Owner Delivery Address: 68 HIGH ST
Owner City/State/Zip: WINDHAM, ME 04062
Owner Telephone: 2078924998
Operator Contact: Not reported

DEPOT ENERGY (Continued) **U001534470**

Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	10/01/1993
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	500
Tank Above/Below:	BELOWGROUND
Installation Date:	01/01/1988
Reg Date:	09/14/1993
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	500
Product Type:	UNLEADED GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	10/01/1993
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

A9 **U.S. BANK N.A., TRUSTEE** **LAST** **S110840668**
NW **1 MECHANIC ST** **N/A**
< 1/8 **WINDHAM, ME**
0.058 mi.
305 ft. **Site 8 of 8 in cluster A**

Relative:
Higher

Actual:
123 ft.

LAST:

Event:

Spill Number:	P-1052-2010
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	True
AST inside flag:	True
Create Date:	02/17/2011
Create By:	EIJLUONG
Modify Date:	03/21/2011
Modify By:	03/21/2011
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported

U.S. BANK N.A., TRUSTEE (Continued) **S110840668**

Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5250
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	3
Reporter Type:	Citizen Complaint
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	MF
Inc Location:	Residential - Multi Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	08
Spill Cause:	Mechanical Failure - Loose Fitting
Material Disposal Info:	Materials disposed of by ENPRO Services.

Change:

Description:	Report Created with Report Status = DR
Date Change:	02/17/2011
Changed By:	EIJLUONG
Description:	Report Status change from DRV to DQA
Date Change:	03/21/2011
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	03/21/2011
Changed By:	EIKWALKE
Description:	Report Status change from DR to DRV
Date Change:	03/09/2011
Changed By:	EIJLUONG

Contact:

Contact Type:	Other Contact
Potential RP:	False
Name:	TIFFANY HAMPTON
Title:	BROKER
Company:	CENTURY 21 SAMIA REAL ESTATE
Address:	547 MAIN STREET
City,State:	WESTBROOK,ME
Country:	USA
Zipcode:	04092
Phone/Ext:	/
Comments:	Not reported
Contact Type:	Other Contact
Potential RP:	False
Name:	PATTY ROSS
Title:	OWNER
Company:	SUNSET HARBOR PROPERTY PRESERVATION
Address:	PO BOX

U.S. BANK N.A., TRUSTEE (Continued) **S110840668**

City,State: OLD ORCHARD BEACH,ME
Country: USA
Zipcode: 04064
Phone/Ext: /
Comments: Not reported

Contact Type: Other Contact
Potential RP: True
Name: CHARLES PETERSON
Title: MANAGER
Company: U.S.BANK N.A.
Address: 60 LIVINGSTON AVENUE
City,State: ST. PAUL,MN
Country: USA
Zipcode: 55107
Phone/Ext: /
Comments: Not reported

Contact Type: Other Contact
Potential RP: True
Name: PETER HUTCHINSON
Title: MANAGER
Company: FIELD ASSET SERVICES
Address: 101 WEST LOUIS HENNA BOULEVARD
City,State: AUSTIN,TX
Country: USA
Zipcode: 78728
Phone/Ext: /
Comments: Not reported

Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: U.S. BANK N.A.
Address: 60 LIVINGSTON AVENUE
City,State: ST. PAUL,MN
Country: USA
Zipcode: 55107
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: JOHN R LUONGO JR

Media Affected:
Medium: Interior Surface

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 1052
Spill Year: 2010

U.S. BANK N.A., TRUSTEE (Continued) **S110840668**

Create Date:	02/17/2011
Created By:	EIJLUONG
Modify Date:	02/17/2011
Modify By:	EIJLUONG
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	12/17/2010
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	JOHN R LUONGO JR
Location:	1 mechanic
Log Location Town:	WWINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	UNKNOWN
Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	25
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE
Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	10
Material Units:	lbs.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Other
Recovery Method:	Excavation
Recovery Method:	Sorbents

U.S. BANK N.A., TRUSTEE (Continued) **S110840668**

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	20
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	Notice of Violation 2011-009-0
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	03/21/2011

B10 **HAWKES GAS STATION** **UST** **U003530710**
SSW **807 GRAY RD** **N/A**
< 1/8 **GORHAM, ME**
0.103 mi.
545 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
125 ft.

UST:

Facility ID:	20128
Facility Location2:	GORHAM
Facility Code:	COMMERCIAL
Fed Reg Ind:	Yes
Owner Name:	GREER, THOMAS S
Owner Contact:	Not reported
Owner Delivery Address:	2 BLOCKHOUSE RD
Owner City/State/Zip:	GORHAM, ME 04038
Owner Telephone:	2078396645
Operator Contact:	Not reported
Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	04/12/1999
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	1000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1947
Reg Date:	04/20/1999
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN

HAWKES GAS STATION (Continued) **U003530710**

Pipe Leak Detection Label:	NONE
Overfill Protection Label:	NONE
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	1000
Product Type:	GASOLINE UNSPECIFIED
Pipe Status:	**REMOVED**
Pipe Status Date:	04/12/1999
Pipe Date Installed:	Not reported
Pipe Material Label:	STEEL - BARE OR ASPHALT COATED.
Pipe Status Label:	REMOVED
Overfill:	NONE

C11 **REAL SCHOOL** **LAST** **S105794172**
East **55 HIGH ST** **N/A**
< 1/8 **WINDHAM, ME**
0.113 mi.
599 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
172 ft.

LAST:

Event:

Spill Number:	P-375-2002
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	Not reported
AST inside flag:	True
Create Date:	06/04/2002
Create By:	EISBERNA
Modify Date:	04/23/2003
Modify By:	04/23/2003
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported
Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5250
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	6
Reporter Type:	Contractor/Consultant
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	PS
Inc Location:	School - Public
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	18
Spill Cause:	Other - Unknown
Material Disposal Info:	by C N Brown

Change:

Description:	Report Status change from DRV to DQA

REAL SCHOOL (Continued) **S105794172**

Date Change: 08/26/2002
Changed By: EIJWOODA

Description: Report Status change from DR to DRV
Date Change: 08/15/2002
Changed By: EISBERNA

Description: Report Status change from DQA to P
Date Change: 09/13/2002
Changed By: EITGALLA

Description: Report Created with Report Status = DR
Date Change: 06/04/2002
Changed By: EISBERNA

Description: re-entered disposal information
Date Change: 04/23/2003
Changed By: eitgalla

Description: Report Status change from P to FR
Date Change: 01/13/2003
Changed By: EITGALLA

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: LORING
Title: SUPERINTENDANT
Company: WINDHAM SCHOOL DEPARTMENT
Address: Not reported
City,State: ,ME
Country: USA
Zipcode: Not reported
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: SHERYL J BERNARD

File:
Spill Id: P-375-2002
Date Created: 05/07/2003
Created By: EIPLAMBE
Date Modified: 07/16/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 16-JUL-09.
Reconcile Date: 05/07/2003
File Reconciled By: Not reported

Media Affected:
Medium: Land

REAL SCHOOL (Continued) **S105794172**

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	375
Spill Year:	2002
Create Date:	06/04/2002
Created By:	EISBERNA
Modify Date:	12/18/2002
Modify By:	EISBERNA
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	05/17/2002
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	SHERYL J BERNARD
Location:	Real School, 55 High St.
Log Location Town:	WINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Historical spillage.

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	5
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Sorbents

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	5
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

REAL SCHOOL (Continued) **S105794172**

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

D12
South
< 1/8
0.116 mi.
615 ft.

Relative:
Higher

Actual:
121 ft.

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) **LUST** **S104324637**
20 MOSHER RD. (RT. 237) **LAST** **N/A**
GORHAM, ME

Site 1 of 6 in cluster D

LUST:

Event:

Spill Number:	P-34-1997
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Report Status:	Final Report
Actual Spill Datetime:	01/16/1997
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Public Official
Detection Method:	Visual Product
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	SORBENT PADS TO DEP.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS
Description:	Not reported
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	Added LAMPRON'S ENTERPRISE OIL as a contact.
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	update
Date Change:	06/15/2004
Changed By:	eisbrezi

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON'S ENTERPRISE OIL
Address:	ROUTE 25
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DENNIS PHILLIPS
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-34-1997
Date Created:	05/26/2005
Created By:	EIPLAMBE
Date Modified:	05/30/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 30-MAY-07.
Reconcile Date:	05/26/2005
File Reconciled By:	Not reported

Media Affected:

Medium:	Inland Surface Water
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	34
Spill Year:	1997
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	01/16/1997
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	01/17/1997
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	STEPHEN BREZINSKI
Location:	Kimbal's (Little Falls) Mobil, Rt. 237
Log Location Town:	GORHAM

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Log Tank Involved: Above Ground Tank(s) Involved
Notes: surface spill

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: 90
Material Units: gals.
Material Amt Qualifier: ACTUAL

Recovery Method: Sorbents

Spill Point:
Create Date: 12/10/2001
Created By: SPILLS
Modify Date: 9/5/2008
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842513
UTM East: 385266
GPS Unit: Unknown
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 1540
GIS Sync Flag: True

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: 100
Product Amt Unit: gals.
Product Amt Qualifier: ACTUAL
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

Event:
Spill Number: P-428-1989
Spill Cause: Corrosion - Tank
Spill Type: Oil Incident
Inc Tank: Underground Tank(s) Involved
Removal Flag: False
UST Registered Flag: True
MCD Value: 5090
Create Date: 12/07/2001
Create By: SPILLS
Modify Date: 12/07/2001

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	09/01/1988
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Citizen Complaint
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	Not reported
Material Disposal Info:	MOBIL OIL-WATER SEPERATOR FOR GW.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	HARBOR OIL SUP / SATURLEY
Address:	BOX 1238
City,State:	PORTLAND,ME
Country:	Not reported
Zipcode:	04104
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DIANA MCLAUGHLIN
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-428-1989
Date Created:	05/01/2001
Created By:	SPILLS
Date Modified:	10/13/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 13-OCT-09.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	428
Spill Year:	1989
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	09/01/1988
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	07/25/1989
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	Not reported
Material Units:	gals.
Material Amt Qualifier:	UNKNOWN
Recovery Method:	Vacuum Trucks

Spill Point:

Create Date:	2/7/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842621.9400000004
UTM East:	385301.90000000002
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	6242
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	1
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	False

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-428-1989
Spill Cause:	Corrosion - Tank
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	09/01/1988
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Citizen Complaint
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	Not reported
Material Disposal Info:	MOBIL OIL-WATER SEPERATOR FOR GW.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	HARBOR OIL SUP / SATURLEY
Address:	BOX 1238
City,State:	PORTLAND,ME
Country:	Not reported
Zipcode:	04104
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DIANA MCLAUGHLIN

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Primary Employee: True
Name: STEPHEN BREZINSKI

File:
Spill Id: P-428-1989
Date Created: 05/01/2001
Created By: SPILLS
Date Modified: 10/13/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 13-OCT-09.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Groundwater

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 428
Spill Year: 1989
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Log Spill Type: Oil Incident
Log Spill Datetime: 09/01/1988
Spill Time Unk: True
Spill Dt Unknown: False
Log Rep Dt Tm: 07/25/1989
Log Rep Prod Cd: 20
Log Rep Prod: Gasoline Unspecified
Log Emp Name: STEPHEN BREZINSKI
Location: Not reported
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: Not reported
Material Units: gals.
Material Amt Qualifier: UNKNOWN

Recovery Method: Vacuum Trucks

Spill Point:
Create Date: 2/7/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Point Type Code:	ASP
UTM North:	4842621.9400000004
UTM East:	385301.90000000002
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	6242
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	1
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-428-1989
Spill Cause:	Corrosion - Tank
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	09/01/1988
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Citizen Complaint
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	Not reported
Material Disposal Info:	MOBIL OIL-WATER SEPERATOR FOR GW.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	HARBOR OIL SUP / SATURLEY
Address:	BOX 1238
City,State:	PORTLAND,ME
Country:	Not reported
Zipcode:	04104
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DIANA MCLAUGHLIN
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-428-1989
Date Created:	05/01/2001
Created By:	SPILLS
Date Modified:	10/13/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 13-OCT-09.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	428
Spill Year:	1989
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	09/01/1988
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	07/25/1989
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	GORHAM

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: Not reported
Material Units: gals.
Material Amt Qualifier: UNKNOWN

Recovery Method: Vacuum Trucks

Spill Point:
Create Date: 2/7/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842621.9400000004
UTM East: 385301.90000000002
GPS Unit: EGAD
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 6242
GIS Sync Flag: True

Product:
Product Code: Gasoline Unspecified
Product Other: Not reported
Product Amt: 1
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: False

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

Event:
Spill Number: P-428-1989
Spill Cause: Corrosion - Tank
Spill Type: Oil Incident
Inc Tank: Underground Tank(s) Involved
Removal Flag: False
UST Registered Flag: True
MCD Value: 5090
Create Date: 12/07/2001
Create By: SPILLS
Modify Date: 12/07/2001

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	09/01/1988
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Citizen Complaint
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	Not reported
Material Disposal Info:	MOBIL OIL-WATER SEPERATOR FOR GW.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	HARBOR OIL SUP / SATURLEY
Address:	BOX 1238
City,State:	PORTLAND,ME
Country:	Not reported
Zipcode:	04104
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DIANA MCLAUGHLIN
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-428-1989
Date Created:	05/01/2001
Created By:	SPILLS
Date Modified:	10/13/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 13-OCT-09.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	428
Spill Year:	1989
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	09/01/1988
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	07/25/1989
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	Not reported
Material Units:	gals.
Material Amt Qualifier:	UNKNOWN
Recovery Method:	Vacuum Trucks

Spill Point:

Create Date:	2/7/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842621.9400000004
UTM East:	385301.90000000002
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	6242
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	1
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	False

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

LAST:

Event:

Spill Number:	P-34-1997
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	False
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	06/15/2004
Modify By:	06/15/2004
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	01/16/1997
Spill Date Unknown:	False
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	4
Reporter Type:	Public Official
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SS
Inc Location:	Terminal - Service Station
Inc Source Code:	TU
Inc Source:	Storage Unit - Underground Storage Tank
Spill Cause Code:	18
Spill Cause:	Other - Unknown
Material Disposal Info:	SORBENT PADS TO DEP.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS
Description:	Not reported
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	Added LAMPRON'S ENTERPRISE OIL as a contact.
Date Change:	06/15/2004

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Changed By:	eisbrezi
Description:	update
Date Change:	06/15/2004
Changed By:	eisbrezi

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON'S ENTERPRISE OIL
Address:	ROUTE 25
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	DENNIS PHILLIPS
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-34-1997
Date Created:	05/26/2005
Created By:	EIPLAMBE
Date Modified:	05/30/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 30-MAY-07.
Reconcile Date:	05/26/2005
File Reconciled By:	Not reported

Media Affected:

Medium:	Inland Surface Water
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	34
Spill Year:	1997
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	01/16/1997
Spill Time Unk:	True
Spill Dt Unknown:	False

LITTLE FALLS MOBIL (KIMBALLS' MOBIL) (Continued) **S104324637**

Log Rep Dt Tm:	01/17/1997
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	STEPHEN BREZINSKI
Location:	Kimbal's (Little Falls) Mobil, Rt. 237
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	surface spill

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	90
Material Units:	gals.
Material Amt Qualifier:	ACTUAL

Spill Point:

Create Date:	12/10/2001
Created By:	SPILLS
Modify Date:	9/5/2008
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842513
UTM East:	385266
GPS Unit:	Unknown
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	1540
GIS Sync Flag:	True
Recovery Method:	Sorbents

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	100
Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

C13 East < 1/8 0.118 mi. 622 ft. | **BILL ESKILSON 46 HIGH ST WINDHAM, ME** | **LAST** | **S106073210 N/A**

Site 2 of 2 in cluster C

Relative: Higher

Actual: 176 ft.

LAST:

Event:

Spill Number:	P-1053-2002
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	True
Create Date:	03/24/2003
Create By:	EINTHOMP
Modify Date:	09/26/2003
Modify By:	09/26/2003
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	04/03/2002
Spill Date Unknown:	False
Spill Time Unknown:	False
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5250
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	6
Reporter Type:	Contractor/Consultant
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	08
Spill Cause:	Mechanical Failure - Loose Fitting
Material Disposal Info:	sorbents entered into Downeast Energy waste stream.

Change:

Description:	Report Status change from DRV to DQA
Date Change:	04/28/2003
Changed By:	EIJWOODA
Description:	Report Created with Report Status = DR
Date Change:	03/24/2003
Changed By:	EINTHOMP
Description:	Report Status change from DR to DRV
Date Change:	03/24/2003
Changed By:	EINTHOMP
Description:	Report Status change from DQA to FR
Date Change:	09/26/2003
Changed By:	EITGALLA

BILL ESKILSON (Continued) **S106073210**

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	BILL ESKILSON
Title:	Not reported
Company:	Not reported
Address:	46 HIGH ST
City,State:	WINDHAM,ME
Country:	USA
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	NATHAN THOMPSON

File:

Spill Id:	P-1053-2002
Date Created:	10/01/2003
Created By:	EIPLAMBE
Date Modified:	08/10/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 10-AUG-09.
Reconcile Date:	10/01/2003
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	1053
Spill Year:	2002
Create Date:	03/24/2003
Created By:	EINTHOMP
Modify Date:	03/24/2003
Modify By:	EINTHOMP
Log Spill Type:	Oil Incident
Log Spill Datetime:	04/03/2002
Spill Time Unk:	False
Spill Dt Unknown:	False
Log Rep Dt Tm:	04/03/2002
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	NATHAN THOMPSON
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

BILL ESKILSON (Continued) **S106073210**

Material Recovered Type: OM
Material Recovered: Other Material
Material Amount: .12
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Spill Point:
Create Date: Not reported
Created By: Not reported
Modify Date: Not reported
Modify By: Not reported
Point Type Code: Not reported
UTM North: Not reported
UTM East: Not reported
GPS Unit: Not reported
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Not reported
GIS Object Id: Not reported
GIS Sync Flag: Not reported

Recovery Method: Sorbents

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: .12
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: DEP Initial Spill Report Form
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 03/24/2003

B14 **RESIDENCE** **LAST** **S111435960**
SSW **771 GRAY ROAD** **N/A**
< 1/8 **GORHAM, ME**
0.120 mi.
632 ft. **Site 2 of 2 in cluster B**

Relative: Higher

Actual: 128 ft.

LAST:

Event:
Spill Number: P-1074-2008
Inc Tank Code: A
Inc Tank: Above Ground Tank(s) Involved
Removal Flag: False
UST registered flag: True
AST inside flag: True
Create Date: 12/01/2008
Create By: EIAHEMEN

RESIDENCE (Continued) **S111435960**

Modify Date:	11/30/2011
Modify By:	11/30/2011
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	11/26/2008
Spill Date Unknown:	False
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	4
Reporter Type:	Public Official
Detection Method Code:	H
Detection Method:	Odor/Vapor/Mist
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	23
Spill Cause:	Mechanical Failure - Other
Material Disposal Info:	DEP

Change:

Description:	Report Status change from DQA to FR
Date Change:	11/30/2011
Changed By:	EIELEIGH
Description:	Report Status change from DR to DRV
Date Change:	03/11/2009
Changed By:	EIJLUONG
Description:	Report Status change from DRV to DQA
Date Change:	04/07/2009
Changed By:	EIJWOODA
Description:	Report Created with Report Status = DR
Date Change:	12/01/2008
Changed By:	EIAHEMEN

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	DWAYNE SAINTORES
Title:	HOMEOWNER
Company:	Not reported
Address:	771 GRAY ROAD
City,State:	GORHAM,ME
Country:	USA
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

RESIDENCE (Continued) **S111435960**

Primary Employee:

Primary Employee:	True
Name:	JOHN R LUONGO JR

Media Affected:

Medium:	Land
Medium:	Interior Surface

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	1074
Spill Year:	2008
Create Date:	12/01/2008
Created By:	EIAHEMEN
Modify Date:	12/01/2008
Modify By:	EIAHEMEN
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	11/26/2008
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	JOHN R LUONGO JR
Location:	Gray Road
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Flooded basement

Material Recovered:

Material Recovered Type:	SP
Material Recovered:	Spilled Product
Material Amount:	2
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Sorbents

RESIDENCE (Continued) **S111435960**

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: 2
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

E15 South < 1/8 0.125 mi. 660 ft. | **RICH TOOL & DIE CO** | **RCRA-NonGen FINDS MANIFEST** | **1000238658 MED001095306**
55 MALLISON ST
SOUTH WINDHAM, ME 04082

Site 1 of 2 in cluster E

Relative: Higher

Actual: 119 ft.

RCRA-NonGen:
Date form received by agency: 07/25/1980
Facility name: RICH TOOL & DIE CO
Facility address: 55 MALLISON ST
SOUTH WINDHAM, ME 04082
EPA ID: MED001095306
Mailing address: MALLISON FALLS RD
SOUTH WINDHAM, ME 04062
Contact: COUTURE WILFRED
Contact address: 3 MALLISON FALLS RD
SOUTH WINDHAM, ME 04062
Contact country: US
Contact telephone: (207) 892-2561
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RICHARD YVON PRESIDENT
Owner/operator address: OWNERSTREET
OWNERCITY, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (207) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

RICH TOOL & DIE CO (Continued) **1000238658**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U226
Waste name: ETHANE, 1,1,1-TRICHLORO-

Violation Status: No violations found

FINDS:

Registry ID: 110003553468

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	MED001095306
Country:	USA
Mailing Name:	RICH TOOL & DIE COMPANY
Mailing Contact:	RICH TOOL & DIE COMPANY
Mailing Address:	55 MALLISON STREET
Mailing Address 2:	Not reported
Mailing City:	SOUTH WINDHAM
Mailing State:	ME
Mailing Zip:	04082
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	207-892-2561

RICH TOOL & DIE CO (Continued) **1000238658**

Document ID:	NYA3267090
Manifest Status:	Completed copy
Trans1 State ID:	ME261630
Trans2 State ID:	RI12810
Generator Ship Date:	860916
Trans1 Recv Date:	860916
Trans2 Recv Date:	860918
TSD Site Recv Date:	860919
Part A Recv Date:	860923
Part B Recv Date:	860926
Generator EPA ID:	MED001095306
Trans1 EPA ID:	MED083179945
Trans2 EPA ID:	RID000769711
TSDF ID:	NYD080469935
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00550
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	011
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	86

E16 **ID NOT IN TRANSPORTER FILE** **MANIFEST** **S109767330**
South **55 MALLISON ST** **N/A**
< 1/8 **SOUTH WINDHAM, ME 04082**
0.125 mi.
660 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
119 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0399798
Waste Occurence:	2
UNNA:	3077
Hazard Class:	9
US Dot Description:	HAZARDOUS WASTE SOLID NOS
No of Containers:	005
Container Type:	CF
Quantity:	2500
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0399798
Waste Occurence:	1
UNNA:	3077
Hazard Class:	9
US Dot Description:	HAZARDOUS WASTE SOLID NOS
No of Containers:	006
Container Type:	CF
Quantity:	3000
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004

ID NOT IN TRANSPORTER FILE (Continued) **S109767330**

DEO Who Last Modified Record: IG

Waste CD:

Manifest No:	CTF0399798
Waste Occurence:	2
EPA Waste Code:	F003
Recycled Waste?:	F
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1995
Manifest ID:	CTF0399798
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES
TSDF Address:	130 FREIGHT ST. WATERBURY
TSDF City,St,Zip:	CT 06725
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	4/21/1995
Transporter EPA ID:	NHD980521843
Transporter Name:	TOTAL WASTE MANAGEMENT
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	4/27/1995
Trans 2 EPA ID:	NHD980521843
Trans 2 Name:	TOTAL WASTE MANAGEMENT
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	MED001095306
Generator Phone:	Not reported
Generator Mailing Addr:	Not reported
Generator Mailing Town:	Not reported
Generator Mailing State:	Not reported
Generator Mailing Zip:	Not reported
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	4/21/1995
Date Received:	4/27/1995
Last modified date:	4/26/2004
Last modified by:	IG
Comments:	Not reported

17 SSW 1/8-1/4 0.125 mi. 662 ft. | **LEE MICHAUD**
751 GRAY RD
GORHAM, ME | **LAST** | **S110534247**
N/A

Relative: Higher

Actual: 139 ft.

LAST:

Event:

Spill Number:	P-22-2008
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	True
AST inside flag:	True
Create Date:	01/09/2008
Create By:	EIKWALKE
Modify Date:	09/09/2010
Modify By:	09/09/2010
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	01/08/2008
Spill Date Unknown:	False
Spill Time Unknown:	False
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	2
Reporter Type:	Subject/Spiller
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	09
Spill Cause:	Overfill
Material Disposal Info:	Sorbent pads and speedy dry disposed of by Downeast Energy

Change:

Description:	Report Created with Report Status = DR
Date Change:	01/09/2008
Changed By:	EIKWALKE
Description:	Report Status change from DR to DRV
Date Change:	02/20/2008
Changed By:	EIKWALKE
Description:	Report Status change from DQA to FR
Date Change:	09/09/2010
Changed By:	EIKWALKE
Description:	Report Status change from DRV to DQA
Date Change:	12/22/2008
Changed By:	EIJWOODA

LEE MICHAUD (Continued) **S110534247**

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	DOWNEAST ENERGY
Address:	34 MANCHESTER DR
City,State:	WINDHAM,ME
Country:	USA
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	KARA T WALKER

Media Affected:

Medium:	Interior Surface

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	22
Spill Year:	2008
Create Date:	01/09/2008
Created By:	EIKWALKE
Modify Date:	01/09/2008
Modify By:	EIKWALKE
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	01/08/2008
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	KARA T WALKER
Location:	751 Gray Rd
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	overfill

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	15
Material Units:	lbs.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported

LEE MICHAUD (Continued) **S110534247**

Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Sorbents

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	.25
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

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18 **CUMBERLAND COUNTY CIVIL** **UST** **U002164558**
NE **85 HIGH ST** **N/A**
1/8-1/4 **WINDHAM, ME**
0.126 mi.
666 ft.

Relative:
Higher

Actual:
153 ft.

UST:

Facility ID:	24
Facility Location2:	WINDHAM
Facility Code:	PUBLIC FACILITY
Fed Reg Ind:	Yes
Owner Name:	CUMBERLAND COUNTY
Owner Contact:	Not reported
Owner Delivery Address:	22 HIGH ST
Owner City/State/Zip:	SOUTH WINDHAM, ME 04082
Owner Telephone:	2078926785
Operator Contact:	Not reported
Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	11/16/1994
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	2000
Tank Above/Below:	BELOWGROUND
Installation Date:	07/01/1978

CUMBERLAND COUNTY CIVIL (Continued) **U002164558**

Reg Date:	05/14/1986
Near Public Water:	No
Near Pvt Water:	Yes
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	NEAR PRIVATE WATER
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	2000
Product Type:	REGULAR GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	11/16/1994
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	11/16/1994
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	1000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1982
Reg Date:	05/14/1986
Near Public Water:	No
Near Pvt Water:	Yes
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	NEAR PRIVATE WATER
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	1000
Product Type:	#2 FUEL OIL
Pipe Status:	**REMOVED**

CUMBERLAND COUNTY CIVIL (Continued) **U002164558**

Pipe Status Date:	11/16/1994
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

D19 **LITTLE FALLS MOBIL** **LUST** **S106789537**
South **20 MOSHER RD - RT 202** **N/A**
1/8-1/4 **GORHAM, ME**
0.137 mi.
721 ft. **Site 2 of 6 in cluster D**

Relative:
Higher

Actual:
124 ft.

LUST:

Event:

Spill Number:	P-205-1999
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	03/11/2002
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	DEP Personnel
Detection Method:	Visual Product
Inc Location:	Terminal - Service Station
Inc Source:	Not reported
Material Disposal Info:	See narrative.

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS
Description:	Added LAMPRON ENERGY OIL CO as a contact.
Date Change:	03/11/2002
Changed By:	eitgalla
Description:	Not reported
Date Change:	03/11/2002
Changed By:	eitgalla
Description:	Not reported
Date Change:	03/11/2002
Changed By:	eitgalla

Contact:

Contact Type:	Subject/Spiller

LITTLE FALLS MOBIL (Continued) **S106789537**

Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	LAMPRON ENERGY OIL CO
Address:	435 OSSIPEE TRAIL
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	False
Name:	ERIC HAMLIN
Primary Employee:	False
Name:	EDWARD SCHARF
Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-205-1999
Date Created:	12/31/2002
Created By:	EICSTULT
Date Modified:	11/05/2008
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report updated in the imaging system on 05-NOV-08. Report scanned into the imaging system on 11-SEP-08.
Reconcile Date:	12/31/2002
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	205
Spill Year:	1999
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	03/24/1999
Log Rep Prod Cd:	29
Log Rep Prod:	Diesel
Log Emp Name:	STEPHEN BREZINSKI

LITTLE FALLS MOBIL (Continued) **S106789537**

Location: Not reported
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: UNKNOWN

Recovery Method: Sorbents

Spill Point:
Create Date: 9/10/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842610.5099999998
UTM East: 385329.14000000001
GPS Unit: TANKS
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 12214
GIS Sync Flag: True

Product:
Product Code: Diesel
Product Other: Not reported
Product Amt: Not reported
Product Amt Unit: Unknown
Product Amt Qualifier: UNKNOWN
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

D20 South 1/8-1/4 0.137 mi. 721 ft. | **LITTLE FALLS MOBIL**
20 MOSHER RD
GORHAM, ME

Site 3 of 6 in cluster D

LUST | **S106674330**
N/A

Relative: Higher

Actual: 124 ft.

LUST:

Event:

Spill Number:	P-584-2003
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	07/30/2003
Create By:	EICPAQUE
Modify Date:	06/03/2004
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Visual Product
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	none

Change:

Description:	Report Status change from DQA to FR
Date Change:	06/03/2004
Changed By:	EITGALLA
Description:	Report Created with Report Status = DR
Date Change:	07/30/2003
Changed By:	EICPAQUE
Description:	Report Status change from DR to DRV
Date Change:	08/06/2003
Changed By:	EISCYR
Description:	Report Status change from DRV to DQA
Date Change:	08/19/2003
Changed By:	EIJWOODA

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON ENERGY INC
Address:	435 OSSIPPEE TR
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038

LITTLE FALLS MOBIL (Continued) **S106674330**

Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: SCOTT R CYR

File:
Spill Id: P-584-2003
Date Created: 06/10/2004
Created By: EIPLAMBE
Date Modified: 02/18/2005
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 18-FEB-05.
Reconcile Date: 06/10/2004
File Reconciled By: Not reported

Media Affected:
Medium: Groundwater

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 584
Spill Year: 2003
Create Date: 07/30/2003
Created By: EICPAQUE
Modify Date: 08/06/2003
Modify By: EISCYR
Log Spill Type: Oil Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 07/31/2003
Log Rep Prod Cd: 23
Log Rep Prod: Unleaded Gasoline
Log Emp Name: SCOTT R CYR
Location: Lampron Facility 20 Mosher Road Gorham
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: upon change or upgrade of spill bucket a sheen was observed on the ground water

Material Recovered:
Material Recovered Type: NO
Material Recovered: None
Material Amount: 0
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Recovery Method: None

LITTLE FALLS MOBIL (Continued) **S106674330**

Spill Point:

Create Date:	9/10/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842610.4800000004
UTM East:	385329.13
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	13568
GIS Sync Flag:	True

Product:

Product Code:	Unleaded Gasoline
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-916-2007
Spill Cause:	Overfill
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	01/23/2008
Create By:	EIGOBRIE
Modify Date:	07/07/2010
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	12/27/2007
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Public Official
Detection Method:	Visual Product
Inc Location:	Terminal - Service Station
Inc Source:	Land Transportation - Tank Truck

LITTLE FALLS MOBIL (Continued) **S106674330**

Material Disposal Info: Disposal by Environmental Projects Inc.

Change:
Description: Report Status change from DR to DRV
Date Change: 02/04/2009
Changed By: EISBREZI

Description: Report Status change from DRV to DQA
Date Change: 04/06/2009
Changed By: EIJWOODA

Description: Report Created with Report Status = DR
Date Change: 01/23/2008
Changed By: EIGOBRIE

Description: Report Status change from DQA to FR
Date Change: 07/07/2010
Changed By: EIESNOOK

Description: Not reported
Date Change: 07/07/2010
Changed By: eiesnook

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON ENERGY INC
Address: 435 OSSIPPEE TR
City,State: GORHAM,ME
Country: Not reported
Zipcode: 04038
Phone/Ext: /
Comments: Not reported

Contact Type: Other Contact
Potential RP: True
Name: Not reported
Title: Not reported
Company: NOURIA ENERGY
Address: PO BOX 1360
City,State: STANDISH,ME
Country: USA
Zipcode: 04084
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN G BREZINSKI

File:
Spill Id: P-916-2007
Date Created: 07/08/2010
Created By: IMAGING

LITTLE FALLS MOBIL (Continued) **S106674330**

Date Modified: 07/08/2010
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 08-JUL-10.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Inland Surface Water

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 916
Spill Year: 2007
Create Date: 01/16/2008
Created By: EIVCRAIG
Modify Date: 02/04/2009
Modify By: EISBREZI
Log Spill Type: Oil Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 12/28/2007
Log Rep Prod Cd: 23
Log Rep Prod: Unleaded Gasoline
Log Emp Name: STEPHEN G BREZINSKI
Location: Rt. 237 (20 Mosher Rd) Little Falls Mobil, Petro King
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Delivery spill

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: 55
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Recovery Method: Remove

Recovery Method: Excavation

Spill Point:
Create Date: 1/14/2009
Created By: EISBREZI
Modify Date: 7/7/2010
Modify By: SPILLS
Point Type Code: ASP
UTM North: 4842610.3499999996
UTM East: 385328.14000000001
GPS Unit: DIGITIZED
GPS Date: Not reported

LITTLE FALLS MOBIL (Continued) **S106674330**

GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 19505
GIS Sync Flag: True

Product:
Product Code: Unleaded Gasoline
Product Other: Not reported
Product Amt: 15
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Hazardous Waste Manifest 3973505 JJK
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 02/04/2009

Description: MDEP Field Notes & Site Sketch
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 02/04/2009

Description: Response Spill DTree Map 1:1826
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 02/04/2009

Description: MDEP photos
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 02/04/2009

Event:
Spill Number: P-278-2005
Spill Cause: Other - No Cause
Spill Type: Non-Oil, Non-Hazardous Incident
Inc Tank: Underground Tank(s) Involved
Removal Flag: False
UST Registered Flag: True
MCD Value: 5090
Create Date: 04/15/2005
Create By: EISBERNA
Modify Date: 02/17/2006
Modify By: EITGALLA
Report Status: Final Report

LITTLE FALLS MOBIL (Continued) **S106674330**

Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Subject/Spiller
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	No Source
Material Disposal Info:	Not reported

Change:

Description:	Report Created with Report Status = DR
Date Change:	04/15/2005
Changed By:	EISBERNA
Description:	Report Status change from DR to DRV
Date Change:	04/15/2005
Changed By:	EISBERNA
Description:	Report Status change from DRV to DQA
Date Change:	04/15/2005
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	02/17/2006
Changed By:	EITGALLA

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON ENERGY INC
Address:	435 OSSIPPEE TR
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	SHERYL J BERNARD

File:

Spill Id:	P-278-2005
Date Created:	02/21/2006
Created By:	IMAGING
Date Modified:	02/21/2006
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 21-FEB-06.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

LITTLE FALLS MOBIL (Continued) **S106674330**

Media Affected:
Medium: None

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 278
Spill Year: 2005
Create Date: 04/15/2005
Created By: EISBERNA
Modify Date: 04/15/2005
Modify By: EISBERNA
Log Spill Type: Non-Oil, Non-Hazardous Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 03/30/2005
Log Rep Prod Cd: 00
Log Rep Prod: None
Log Emp Name: SHERYL J BERNARD
Location: Little Falls Mobil 20 Mosher Rd
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Water alarm at UST facility

Material Recovered:
Material Recovered Type: Not reported
Material Recovered: Not reported
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: Not reported

Recovery Method: None

Spill Point:
Create Date: 9/10/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842610.4800000004
UTM East: 385329.08000000002
GPS Unit: TANKS
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 12460
GIS Sync Flag: True

Product:
Product Code: None
Product Other: Not reported
Product Amt: Not reported
Product Amt Unit: Not reported
Product Amt Qualifier: Not reported

LITTLE FALLS MOBIL (Continued) **S106674330**

Primary Product: True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

D21 South 1/8-1/4 0.137 mi. 721 ft. **PETRO KING** **UST** **U002165847**
20 MOSHER RD **N/A**
GORHAM, ME

Site 4 of 6 in cluster D

Relative: Higher

Actual: 124 ft.

UST:

Facility ID:	6401
Facility Location2:	GORHAM
Facility Code:	RETAIL OIL
Fed Reg Ind:	Yes
Owner Name:	NOURIA ENERGY RETAIL, MAINE
Owner Contact:	Not reported
Owner Delivery Address:	326 CLARK STREET
Owner City/State/Zip:	WORCESTER, MA 01606
Owner Telephone:	5087623727
Operator Contact:	Not reported
Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	08/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	07/01/1977
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	10000

PETRO KING (Continued) **U002165847**

Product Type:	UNLEADED GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	08/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	08/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	4000
Tank Above/Below:	BELOWGROUND
Installation Date:	07/01/1977
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	4000
Product Type:	REGULAR GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	08/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	3
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	08/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	3000
Tank Above/Below:	BELOWGROUND
Installation Date:	07/01/1977
Reg Date:	09/23/1986

PETRO KING (Continued) **U002165847**

Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	3000
Product Type:	PREMIUM UNLEADED
Pipe Status:	**REMOVED**
Pipe Status Date:	08/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	4
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	08/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	275
Tank Above/Below:	BELOWGROUND
Installation Date:	01/01/1977
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	275
Product Type:	WASTE OIL/USED MOTOR OIL
Pipe Status:	**REMOVED**
Pipe Status Date:	08/01/1989

PETRO KING (Continued) **U002165847**

Pipe Date Installed:	Not reported
Pipe Material Label:	OTHER
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	5
Tank Material:	STEEL WITH CATHODIC PROTECTION.
Tank Status:	**OUT_OF_SERVICE**
Tank Sub Status:	**OUT_OF_SERVICE**
Tank Status Date:	06/15/2011
Tank Status Label:	OUT OF SERVICE
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	08/01/1989
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM
Overfill Protection Label:	DROP TUBE
Latitude:	43.72766
Longitude:	-70.42377
Chamber ID:	1
Volume (gallons):	10000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**OUT_OF_SERVICE**
Pipe Status Date:	06/15/2011
Pipe Date Installed:	05/27/1999
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	OUT OF SERVICE
Overfill:	DROP_TUBE

Tank Number:	6
Tank Material:	STEEL WITH CATHODIC PROTECTION.
Tank Status:	**OUT_OF_SERVICE**
Tank Sub Status:	**OUT_OF_SERVICE**
Tank Status Date:	06/15/2011
Tank Status Label:	OUT OF SERVICE
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	4000
Tank Above/Below:	BELOWGROUND
Installation Date:	08/01/1989
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No

PETRO KING (Continued) **U002165847**

On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM
Overfill Protection Label:	DROP TUBE
Latitude:	43.72766
Longitude:	-70.42377
Chamber ID:	1
Volume (gallons):	4000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**OUT_OF_SERVICE**
Pipe Status Date:	06/15/2011
Pipe Date Installed:	05/27/1999
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	OUT OF SERVICE
Overfill:	DROP_TUBE

Tank Number:	7
Tank Material:	STEEL WITH CATHODIC PROTECTION.
Tank Status:	**OUT_OF_SERVICE**
Tank Sub Status:	**OUT_OF_SERVICE**
Tank Status Date:	06/15/2011
Tank Status Label:	OUT OF SERVICE
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	4000
Tank Above/Below:	BELOWGROUND
Installation Date:	08/01/1989
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM
Overfill Protection Label:	DROP TUBE
Latitude:	43.72766
Longitude:	-70.42376
Chamber ID:	1
Volume (gallons):	4000
Product Type:	PREMIUM UNLEADED
Pipe Status:	**OUT_OF_SERVICE**
Pipe Status Date:	06/15/2011
Pipe Date Installed:	05/27/1999
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	OUT OF SERVICE

PETRO KING (Continued) **U002165847**

Overfill:	DROP_TUBE

Tank Number:	8
Tank Material:	STEEL WITH CATHODIC PROTECTION.
Tank Status:	**OUT_OF_SERVICE**
Tank Sub Status:	**OUT_OF_SERVICE**
Tank Status Date:	06/15/2011
Tank Status Label:	OUT OF SERVICE
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	4000
Tank Above/Below:	BELOWGROUND
Installation Date:	08/01/1989
Reg Date:	09/23/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM
Overfill Protection Label:	DROP TUBE
Latitude:	43.72766
Longitude:	-70.42376
Chamber ID:	1
Volume (gallons):	4000
Product Type:	DIESEL
Pipe Status:	**OUT_OF_SERVICE**
Pipe Status Date:	06/15/2011
Pipe Date Installed:	05/27/1999
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	OUT OF SERVICE
Overfill:	DROP_TUBE

22
SSW
1/8-1/4
0.137 mi.
722 ft.

LOUISE SICLANO **LAST** **S106073198**
720 GRAY RD **N/A**
GORHAM, ME

Relative:
Higher

Actual:
140 ft.

LAST:

Event:

Spill Number:	P-187-2002
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	True
AST inside flag:	False
Create Date:	01/30/2003
Create By:	EIAHEMEN
Modify Date:	10/06/2003
Modify By:	10/06/2003

LOUISE SICLANO (Continued) **S106073198**

Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	03/13/2002
Spill Date Unknown:	False
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	3
Reporter Type:	Citizen Complaint
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	01
Spill Cause:	Corrosion - Tank
Material Disposal Info:	Guerin

Change:

Description:	Report Status change from DRV to DQA
Date Change:	06/06/2003
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	10/06/2003
Changed By:	EITGALLA
Description:	Report Created with Report Status = DR
Date Change:	01/30/2003
Changed By:	EIAHEMEN
Description:	Report Status change from DR to DRV
Date Change:	01/30/2003
Changed By:	EIAHEMEN

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	LOUISE SICLANO
Title:	Not reported
Company:	Not reported
Address:	720 GRAY RD
City,State:	GORHAM,ME
Country:	USA
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	ANN E HEMENWAY

LOUISE SICLANO (Continued) **S106073198**

File:

Spill Id:	P-187-2002
Date Created:	10/06/2003
Created By:	EIPLAMBE
Date Modified:	07/13/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 13-JUL-09.
Reconcile Date:	10/06/2003
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	187
Spill Year:	2002
Create Date:	01/30/2003
Created By:	EIAHEMEN
Modify Date:	01/30/2003
Modify By:	EIAHEMEN
Log Spill Type:	Oil Incident
Log Spill Datetime:	03/13/2002
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	03/13/2002
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	ANN E HEMENWAY
Location:	Siclano Res 720 Gray Road
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Drum/tank corroded in driveway

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	250
Material Units:	lbs.
Material Amt Qualifier:	ESTIMATE

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported

LOUISE SICLANO (Continued) **S106073198**

GIS Object Id: Not reported
GIS Sync Flag: Not reported

Recovery Method: Sorbents

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: 20
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

F23 **SHAW RESIDENCE** **LAST** **S105000644**
NW **134 MAIN ST., RT. 202** **N/A**
1/8-1/4 **WINDHAM, ME**
0.137 mi.
722 ft. **Site 1 of 2 in cluster F**

Relative: Higher

Actual: 138 ft.

LAST:

Event:
Spill Number: P-338-1998
Inc Tank Code: A
Inc Tank: Above Ground Tank(s) Involved
Removal Flag: False
UST registered flag: False
AST inside flag: False
Create Date: 12/07/2001
Create By: SPILLS
Modify Date: 12/07/2001
Modify By: 12/07/2001
Report Status Code: FR
Report Status: Final Report
Spill Datetime: Not reported
Spill Date Unknown: True
Spill Time Unknown: True
Number of wells at risk: 0
Number of wells impacted: 0
DTREE completed flag: False
MCD Value: 5250
Further response action: False
Spill Type Code: O
Spill Type: Oil Incident
Reporter Type Code: 6
Reporter Type: Contractor/Consultant
Detection Method Code: H
Detection Method: Odor/Vapor/Mist

SHAW RESIDENCE (Continued) **S105000644**

Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	Not reported
Inc Source:	Not reported
Spill Cause Code:	01
Spill Cause:	Corrosion - Tank
Material Disposal Info:	Not reported

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	HELEN SHAW
Title:	Not reported
Company:	Not reported
Address:	134 MAIN ST.
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	Not reported
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-338-1998
Date Created:	10/08/1999
Created By:	SPILLS
Date Modified:	03/20/2008
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 20-MAR-08.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	338
Spill Year:	1998
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported

SHAW RESIDENCE (Continued) **S105000644**

Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	07/23/1998
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	.09
Material Units:	gals.
Material Amt Qualifier:	ACTUAL

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported
Recovery Method:	Sorbents

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	gals.
Product Amt Qualifier:	UNKNOWN
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

D24 **WILLIAMS OIL CO.** **LAST** **S104223020**
South **26 MOSHER RD.** **N/A**
1/8-1/4 **GORHAM, ME**
0.143 mi.
755 ft. **Site 5 of 6 in cluster D**

Relative:
Higher

Actual:
123 ft.

LAST:

Event:

Spill Number:	P-220-1997
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	False
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	12/07/2001
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported
Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	Not reported
Number of wells impacted:	Not reported
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	3
Reporter Type:	Citizen Complaint
Detection Method Code:	H
Detection Method:	Odor/Vapor/Mist
Inc Location Code:	CM
Inc Location:	Business - Commercial
Inc Source Code:	Not reported
Inc Source:	Not reported
Spill Cause Code:	06
Spill Cause:	Mechanical Failure - Piping/Hose
Material Disposal Info:	Not reported

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	WILLIAMS OIL CO.
Address:	26 MOSHER RD.
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	Not reported
Phone/Ext:	/
Comments:	Not reported

WILLIAMS OIL CO. (Continued) **S104223020**

Primary Employee:

Primary Employee:	True
Name:	JOHN DUNLAP

File:

Spill Id:	P-220-1997
Date Created:	09/12/1997
Created By:	SPILLS
Date Modified:	06/08/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 08-JUN-07.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	220
Spill Year:	1997
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	04/28/1997
Log Rep Prod Cd:	01
Log Rep Prod:	#1 Fuel Oil - Kerosene
Log Emp Name:	JOHN DUNLAP
Location:	Not reported
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported

WILLIAMS OIL CO. (Continued) **S104223020**

UTM East: Not reported
GPS Unit: Not reported
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Not reported
GIS Object Id: Not reported
GIS Sync Flag: Not reported

Recovery Method: Not reported

Product:
Product Code: #1 Fuel Oil - Kerosene
Product Other: Not reported
Product Amt: Not reported
Product Amt Unit: gals.
Product Amt Qualifier: UNKNOWN
Primary Product: False

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

D25
South
1/8-1/4
0.143 mi.
755 ft.

JTL OIL CO WILLIAMS OIL **LAST** **S109799055**
26 MOSHER RD ROUTE 237 **N/A**
GORHAM, ME

Site 6 of 6 in cluster D

Relative:
Higher

Actual:
123 ft.

LAST:

Event:
Spill Number: P-367-2007
Inc Tank Code: A
Inc Tank: Above Ground Tank(s) Involved
Removal Flag: False
UST registered flag: True
AST inside flag: False
Create Date: 07/18/2007
Create By: EIGOBRIE
Modify Date: 07/17/2009
Modify By: 07/17/2009
Report Status Code: FR
Report Status: Final Report
Spill Datetime: Not reported
Spill Date Unknown: True
Spill Time Unknown: True
Number of wells at risk: 1
Number of wells impacted: 0
DTREE completed flag: False
MCD Value: 5090
Further response action: False
Spill Type Code: I

JTL OIL CO WILLIAMS OIL (Continued) **S109799055**

Spill Type:	Non-Oil, Non-Hazardous Incident
Reporter Type Code:	4
Reporter Type:	Public Official
Detection Method Code:	I
Detection Method:	Other
Inc Location Code:	BP
Inc Location:	Terminal - Bulk Plant
Inc Source Code:	NO
Inc Source:	No Source
Spill Cause Code:	00
Spill Cause:	Other - No Cause
Material Disposal Info:	None

Change:

Description:	Report Status change from DQA to FR
Date Change:	07/17/2009
Changed By:	EIJLYONS
Description:	Report Status change from DR to DRV
Date Change:	11/30/2007
Changed By:	EISBREZI
Description:	Report Created with Report Status = DR
Date Change:	07/18/2007
Changed By:	EIGOBRIE
Description:	Report Status change from DRV to DQA
Date Change:	11/18/2008
Changed By:	EIJWOODA

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	JTL OIL COMPAN
Address:	26 MOSHER ROAD
City,State:	GORHAM,ME
Country:	USA
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	STEPHEN G BREZINSKI

File:

Spill Id:	P-367-2007
Date Created:	07/21/2009
Created By:	IMAGING
Date Modified:	07/21/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 21-JUL-09.
Reconcile Date:	Not reported

JTL OIL CO WILLIAMS OIL (Continued) **S109799055**

File Reconciled By: Not reported

Media Affected:
Medium: None

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 367
Spill Year: 2007
Create Date: 07/18/2007
Created By: EIGOBRIE
Modify Date: 11/30/2007
Modify By: EISBREZI
Log Spill Type: Oil Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 05/21/2007
Log Rep Prod Cd: 02
Log Rep Prod: #2 Fuel Oil
Log Emp Name: STEPHEN G BREZINSKI
Location: JTL Oil Co 26 Mosher Rd
Log Location Town: GORHAM
Log Tank Involved: Above Ground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: NO
Material Recovered: None
Material Amount: 0
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Spill Point:
Create Date: 1/14/2009
Created By: EISBREZI
Modify Date: 1/14/2009
Modify By: EISBREZI
Point Type Code: ASP
UTM North: 4842602.3099999996
UTM East: 385379.62
GPS Unit: DIGITIZED
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 19506
GIS Sync Flag: True

Recovery Method: None

Product:
Product Code: None
Product Other: Not reported
Product Amt: 0

JTL OIL CO WILLIAMS OIL (Continued) **S109799055**

Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	True

Attachments:

Description:	DEP photos
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	11/30/2007

Description:	DEP e-mails
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	11/30/2007

Description:	site sketch
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	11/30/2007

G26
South
1/8-1/4
0.151 mi.
796 ft.

Relative:
Higher

Actual:
135 ft.

LAMPRONS LITTLE FALLS MINI MART **LUST** **S109802245**
688 GRAY RD, RT. 202 CIRCLE **N/A**
GORHAM, ME

Site 1 of 7 in cluster G

LUST:

Event:

Spill Number:	P-566-2007
Spill Cause:	Corrosion - Other
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	08/22/2007
Create By:	EIGOBRIE
Modify Date:	07/16/2009
Modify By:	EIJLYONS
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	True
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Odor/Vapor/Mist
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank

LAMPRONS LITTLE FALLS MINI MART (Continued) **S109802245**

Material Disposal Info: Soil to Commercial Paving & Recycling Company

Change:
Description: Report Status change from DRV to DQA
Date Change: 04/01/2009
Changed By: EIJWOODA

Description: Report Status change from DQA to FR
Date Change: 07/16/2009
Changed By: EIJLYONS

Description: Report Created with Report Status = DR
Date Change: 08/22/2007
Changed By: EIGOBRIE

Description: Report Status change from DR to DRV
Date Change: 09/06/2007
Changed By: EISBREZI

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON ENERGY INC
Address: 435 OSSIPPEE TR
City,State: GORHAM,ME
Country: Not reported
Zipcode: 04038
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN G BREZINSKI

Primary Employee: False
Name: SCOTT R CYR

File:
Spill Id: P-566-2007
Date Created: 07/17/2009
Created By: IMAGING
Date Modified: 07/28/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report updated in the imaging system on 28-JUL-09. Report scanned into the imaging system on 17-JUL-09.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Groundwater

Medium: Land

LAMPRONS LITTLE FALLS MINI MART (Continued) **S109802245**

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	566
Spill Year:	2007
Create Date:	08/22/2007
Created By:	EIGOBRIE
Modify Date:	12/06/2007
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	07/30/2007
Log Rep Prod Cd:	23
Log Rep Prod:	Unleaded Gasoline
Log Emp Name:	STEPHEN G BREZINSKI
Location:	Lampron Lil Mart Gulf station 688 Gray Rd, RT 202 Circle
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Shaw Bros/PWD digging new storm drain

Material Recovered:

Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	271.01
Material Units:	tons
Material Amt Qualifier:	ACTUAL
Recovery Method:	Excavation

Spill Point:

Create Date:	9/10/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842665.3099999996
UTM East:	385190.89000000001
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	12018
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	True

LAMPRONS LITTLE FALLS MINI MART (Continued) **S109802245**

Attachments:

Description:	Location Map
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	07/20/2009

Description:	Signed Spill Debris
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	07/16/2009

Description:	waste processing Info.
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	09/06/2007

Description:	Expense Tracking
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	09/06/2007

Description:	Cleanup DTREE
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	09/06/2007

G27 **LITTLE FALLS MINI-MART** **ALLSITES** **S106615696**
South **688 GRAY ROAD (RTE. 202)** **VCP** **N/A**
1/8-1/4 **GORHAM, ME**
0.152 mi.
802 ft. **Site 2 of 7 in cluster G**

Relative:
Higher

Actual:
135 ft.

ALLSITES:

Status:	NO FURTHER ACTION
Program Type:	VRAP
Lat/Long:	43.728196 / -70.425541
IC:	FALSE

VCP:

Facility ID:	REM01039
Facility status:	NO FURTHER ACTION
Program Type:	VRAP
Lat/Long:	43.728196 / -70.425541
Inst Controls:	FALSE

G28 South 1/8-1/4 0.152 mi. 802 ft. | **LITTLE FALLS MINI MART 688 GRAY RD. RT 202 GORHAM, ME** | **LUST** | **S104207049 N/A**

Site 3 of 7 in cluster G

Relative: Higher

Actual: 135 ft.

LUST:

Event:

Spill Number:	P-560-1993
Spill Cause:	Accident - Human Error
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Report Status:	Final Report
Actual Spill Datetime:	09/08/1993
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Public Official
Detection Method:	Visual Product
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	NO TEXT. SEE ATTACHED

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS
Description:	Added LAMPRON OIL (ENERGY INC.) as a contact.
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	Not reported
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	UPDATE
Date Change:	06/15/2004
Changed By:	eisbrezi

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON OIL (ENERGY INC.)
Address:	435 OSSIPPEE TR
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038

LITTLE FALLS MINI MART (Continued) **S104207049**

Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN BREZINSKI

File:
Spill Id: P-560-1993
Date Created: 10/07/1993
Created By: SPILLS
Date Modified: 07/19/2007
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 19-JUL-07.
Reconcile Date: 04/08/2003
File Reconciled By: LISA M. MOORE

Media Affected:
Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 560
Spill Year: 1993
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 06/15/2004
Modify By: EISBREZI
Log Spill Type: Oil Incident
Log Spill Datetime: 09/08/1993
Spill Time Unk: False
Spill Dt Unknown: False
Log Rep Dt Tm: 09/08/1993
Log Rep Prod Cd: 23
Log Rep Prod: Unleaded Gasoline
Log Emp Name: STEPHEN BREZINSKI
Location: LITTLE FALLS MINI MART (LIL MART), RT. 237
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: 4
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Recovery Method: Sorbents

Spill Point:
Create Date: 9/10/2008

LITTLE FALLS MINI MART (Continued) **S104207049**

Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842665.3099999996
UTM East:	385190.89000000001
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	13030
GIS Sync Flag:	True

Product:

Product Code:	Unleaded Gasoline
Product Other:	Not reported
Product Amt:	4.09
Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-403-1989
Spill Cause:	Overfill
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Subject/Spiller
Detection Method:	Monitoring Well
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	NONE AT THIS TIME

Change:

LITTLE FALLS MINI MART (Continued) **S104207049**

Description: Report Created with Report Status = FR
Date Change: 12/07/2001
Changed By: SPILLS

Description: Added LAMPRON'S ENTERPRISES as a contact.
Date Change: 06/15/2004
Changed By: eisbrezi

Description: update
Date Change: 06/15/2004
Changed By: eisbrezi

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON'S ENTERPRISES
Address: 638 GRAY ROAD (RT 25)
City,State: GORHAM,ME
Country: Not reported
Zipcode: 04082
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN BREZINSKI

File:
Spill Id: P-403-1989
Date Created: 08/10/1993
Created By: SPILLS
Date Modified: 10/13/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 13-OCT-09.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Land

Medium: Groundwater

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 403
Spill Year: 1989
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Log Spill Type: Oil Incident

LITTLE FALLS MINI MART (Continued) **S104207049**

Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	07/12/1989
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported
Recovery Method:	None

Spill Point:

Create Date:	2/7/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842692.9400000004
UTM East:	385179.59999999998
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	4096
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	10
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-403-1989

LITTLE FALLS MINI MART (Continued) **S104207049**

Spill Cause:	Overfill
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	06/15/2004
Modify By:	EISBREZI
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Subject/Spiller
Detection Method:	Monitoring Well
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	NONE AT THIS TIME

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS
Description:	Added LAMPRON'S ENTERPRISES as a contact.
Date Change:	06/15/2004
Changed By:	eisbrezi
Description:	update
Date Change:	06/15/2004
Changed By:	eisbrezi

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON'S ENTERPRISES
Address:	638 GRAY ROAD (RT 25)
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04082
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	STEPHEN BREZINSKI

File:

Spill Id:	P-403-1989
Date Created:	08/10/1993

LITTLE FALLS MINI MART (Continued) **S104207049**

Created By:	SPILLS
Date Modified:	10/13/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 13-OCT-09.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land
Medium:	Groundwater

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	403
Spill Year:	1989
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	07/12/1989
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	STEPHEN BREZINSKI
Location:	Not reported
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported
Recovery Method:	None

Spill Point:

Create Date:	2/7/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842692.9400000004
UTM East:	385179.59999999998
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported

LITTLE FALLS MINI MART (Continued) **S104207049**

GIS Feature Class: Response_Spill_Points
GIS Object Id: 4096
GIS Sync Flag: True

Product:
Product Code: Gasoline Unspecified
Product Other: Not reported
Product Amt: 10
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

Event:
Spill Number: P-403-1989
Spill Cause: Overfill
Spill Type: Oil Incident
Inc Tank: Underground Tank(s) Involved
Removal Flag: False
UST Registered Flag: True
MCD Value: 5090
Create Date: 12/07/2001
Create By: SPILLS
Modify Date: 06/15/2004
Modify By: EISBREZI
Report Status: Final Report
Actual Spill Datetime: Not reported
Actual Spill Date Unknown: True
Number Wells At Risk: 0
Number Wells Impacted: 0
Dtree Completed Flag: False
Further Response Action: False
Reporter Type: Subject/Spiller
Detection Method: Monitoring Well
Inc Location: Terminal - Service Station
Inc Source: Storage Unit - Underground Storage Tank
Material Disposal Info: NONE AT THIS TIME

Change:
Description: Report Created with Report Status = FR
Date Change: 12/07/2001
Changed By: SPILLS

Description: Added LAMPRON'S ENTERPRISES as a contact.
Date Change: 06/15/2004
Changed By: eisbrezi

Description: update

LITTLE FALLS MINI MART (Continued) **S104207049**

Date Change: 06/15/2004
Changed By: eisbrezi

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON'S ENTERPRISES
Address: 638 GRAY ROAD (RT 25)
City,State: GORHAM,ME
Country: Not reported
Zipcode: 04082
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN BREZINSKI

File:
Spill Id: P-403-1989
Date Created: 08/10/1993
Created By: SPILLS
Date Modified: 10/13/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 13-OCT-09.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Land

Medium: Groundwater

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 403
Spill Year: 1989
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Log Spill Type: Oil Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 07/12/1989
Log Rep Prod Cd: 20
Log Rep Prod: Gasoline Unspecified
Log Emp Name: STEPHEN BREZINSKI
Location: Not reported
Log Location Town: GORHAM

LITTLE FALLS MINI MART (Continued) **S104207049**

Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: Not reported
Material Recovered: Not reported
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: Not reported

Recovery Method: None

Spill Point:
Create Date: 2/7/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842692.9400000004
UTM East: 385179.59999999998
GPS Unit: EGAD
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 4096
GIS Sync Flag: True

Product:
Product Code: Gasoline Unspecified
Product Other: Not reported
Product Amt: 10
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

G29 **LAMPRON LIL MART** **LUST** **S106674399**
South **688 GRAY RD - RT 237** **N/A**
1/8-1/4 **GORHAM, ME**
0.152 mi.
802 ft. **Site 4 of 7 in cluster G**

Relative:
Higher

Actual:
135 ft.

LUST:

Event:
Spill Number: P-381-2004
Spill Cause: Other - Unknown
Spill Type: Oil Incident

LAMPRON LIL MART (Continued) **S106674399**

Inc Tank:	Underground Tank(s) Involved
Removal Flag:	True
UST Registered Flag:	True
MCD Value:	5090
Create Date:	05/13/2004
Create By:	EICPAQUE
Modify Date:	11/19/2004
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Site Assessment
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	Soil to CRS

Change:

Description:	Report Created with Report Status = DR
Date Change:	05/13/2004
Changed By:	EICPAQUE
Description:	Report Status change from DR to DRV
Date Change:	06/15/2004
Changed By:	EISBREZI
Description:	Report Status change from DRV to DQA
Date Change:	11/04/2004
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	11/19/2004
Changed By:	EITGALLA

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON ENERGY INC
Address:	435 OSSIPPEE TR
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	STEPHEN G BREZINSKI

File:

LAMPRON LIL MART (Continued) **S106674399**

Spill Id:	P-381-2004
Date Created:	01/27/2005
Created By:	EIPLAMBE
Date Modified:	03/21/2005
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report updated in the imaging system on 21-MAR-05. Report updated in the imaging system on 02-MAR-05. Report scanned into the imaging system on 22-FEB-05.
Reconcile Date:	01/27/2005
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	381
Spill Year:	2004
Create Date:	05/13/2004
Created By:	EICPAQUE
Modify Date:	06/15/2004
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	05/03/2004
Log Rep Prod Cd:	23
Log Rep Prod:	Unleaded Gasoline
Log Emp Name:	STEPHEN G BREZINSKI
Location:	Lampron's Lil'Mart (former Little Falls Minimart) Route 237 circle
Log Location Town:	GORHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	LUST removal

Material Recovered:

Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	UNKNOWN
Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	602.1
Material Units:	tons
Material Amt Qualifier:	ACTUAL
Recovery Method:	Pumps
Recovery Method:	Excavation

LAMPRON LIL MART (Continued) **S106674399**

Spill Point:

Create Date:	9/10/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842665.3099999996
UTM East:	385190.89000000001
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	13242
GIS Sync Flag:	True

Product:

Product Code:	Unleaded Gasoline
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	True

Attachments:

Description:	UST Fund Department Order
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	01/25/2005
Description:	LUST Release Report
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	11/19/2004
Description:	site map
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	historical report P-257-91
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	soil disp. document
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported

LAMPRON LIL MART (Continued) **S106674399**

File Size:	Not reported
File Modify Date:	06/15/2004
Description:	Removal & Reg. forms
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	notes
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004

Event:

Spill Number:	P-381-2004
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	True
UST Registered Flag:	True
MCD Value:	5090
Create Date:	05/13/2004
Create By:	EICPAQUE
Modify Date:	11/19/2004
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Site Assessment
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	Soil to CRS

Change:

Description:	Report Created with Report Status = DR
Date Change:	05/13/2004
Changed By:	EICPAQUE
Description:	Report Status change from DR to DRV
Date Change:	06/15/2004
Changed By:	EISBREZI
Description:	Report Status change from DRV to DQA
Date Change:	11/04/2004
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR

LAMPRON LIL MART (Continued) **S106674399**

Date Change:	11/19/2004
Changed By:	EITGALLA

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	LAMPRON ENERGY INC
Address:	435 OSSIPPEE TR
City,State:	GORHAM,ME
Country:	Not reported
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	STEPHEN G BREZINSKI

File:

Spill Id:	P-381-2004
Date Created:	01/27/2005
Created By:	EIPLAMBE
Date Modified:	03/21/2005
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report updated in the imaging system on 21-MAR-05. Report updated in the imaging system on 02-MAR-05. Report scanned into the imaging system on 22-FEB-05.
Reconcile Date:	01/27/2005
File Reconciled By:	Not reported

Media Affected:

Medium:	Groundwater
Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	381
Spill Year:	2004
Create Date:	05/13/2004
Created By:	EICPAQUE
Modify Date:	06/15/2004
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	05/03/2004
Log Rep Prod Cd:	23
Log Rep Prod:	Unleaded Gasoline
Log Emp Name:	STEPHEN G BREZINSKI

LAMPRON LIL MART (Continued) **S106674399**

Location: Lampron's Lil'Mart (former Little Falls Minimart) Route 237 circle
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: LUST removal

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: UNKNOWN

Material Recovered Type: CS
Material Recovered: Contaminated Soil
Material Amount: 602.1
Material Units: tons
Material Amt Qualifier: ACTUAL

Recovery Method: Pumps

Recovery Method: Excavation

Spill Point:
Create Date: 9/10/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842665.3099999996
UTM East: 385190.89000000001
GPS Unit: TANKS
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 13242
GIS Sync Flag: True

Product:
Product Code: Unleaded Gasoline
Product Other: Not reported
Product Amt: Not reported
Product Amt Unit: Not reported
Product Amt Qualifier: UNKNOWN
Primary Product: True

Attachments:
Description: UST Fund Department Order
Attach Type: Paper Attach
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: 01/25/2005

Description: LUST Release Report
Attach Type: Paper Attach

LAMPRON LIL MART (Continued) **S106674399**

File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	11/19/2004
Description:	site map
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	historical report P-257-91
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	soil disp. document
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	Removal & Reg. forms
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004
Description:	notes
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/15/2004

G30 **LAMPRON LIL MART** **UST** **U003099493**
South **688 GRAY RD** **N/A**
1/8-1/4 **GORHAM, ME**
0.152 mi.
802 ft. **Site 5 of 7 in cluster G**

Relative:
Higher

Actual:
135 ft.

UST:

Facility ID:	13451
Facility Location2:	GORHAM
Facility Code:	RETAIL OIL
Fed Reg Ind:	Yes
Owner Name:	NOURIA ENERGY RETAIL, MAINE
Owner Contact:	Not reported
Owner Delivery Address:	326 CLARK STREET
Owner City/State/Zip:	WORCESTER, MA 01606
Owner Telephone:	5087623727
Operator Contact:	Not reported

LAMPRON LIL MART (Continued) **U003099493**

Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**ABANDONED_IN_PLACE**
Tank Sub Status:	**ABANDONED_IN_PLACE**
Tank Status Date:	05/12/2004
Tank Status Label:	ABANDONED IN PLACE
Tank Sub Status Label:	SA APPROVED
Tank Volume in Gallons:	6000
Tank Above/Below:	BELOWGROUND
Installation Date:	01/01/1971
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	6000
Product Type:	REGULAR GASOLINE
Pipe Status:	**PLANNED_FOR_ABANDONMENT**
Pipe Status Date:	06/17/2004
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	PLANNED FOR ABANDONMENT
Overfill:	UNKNOWN

Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	05/12/2004
Tank Status Label:	REMOVED
Tank Sub Status Label:	SA APPROVED
Tank Volume in Gallons:	6000
Tank Above/Below:	BELOWGROUND
Installation Date:	01/01/1971
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN

LAMPRON LIL MART (Continued) **U003099493**

Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	6000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	05/01/1991
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	3
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	05/01/1991
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	6000
Tank Above/Below:	BELOWGROUND
Installation Date:	01/01/1971
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	6000
Product Type:	PREMIUM UNLEADED
Pipe Status:	**REMOVED**
Pipe Status Date:	05/01/1991
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	4
Tank Material:	DOUBLE-WALLED CP STEEL
Tank Status:	**REMOVED**

LAMPRON LIL MART (Continued) **U003099493**

Tank Sub Status:	**REMOVED**
Tank Status Date:	05/12/2004
Tank Status Label:	REMOVED
Tank Sub Status Label:	SA APPROVED
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	05/24/1991
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM
Overfill Protection Label:	DROP TUBE
Latitude:	43.72813
Longitude:	-70.42549
Chamber ID:	1
Volume (gallons):	7000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	06/17/2004
Pipe Date Installed:	05/24/1991
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	REMOVED
Overfill:	DROP_TUBE

Tank Number:	4
Tank Material:	DOUBLE-WALLED CP STEEL
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	05/12/2004
Tank Status Label:	REMOVED
Tank Sub Status Label:	SA APPROVED
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	05/24/1991
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	CONFORMING SUCTION SYSTEM

LAMPRON LIL MART (Continued) **U003099493**

Overfill Protection Label:	MECHANICAL
Latitude:	43.72813
Longitude:	-70.42549
Chamber ID:	2
Volume (gallons):	3000
Product Type:	PREMIUM UNLEADED
Pipe Status:	**REMOVED**
Pipe Status Date:	06/17/2004
Pipe Date Installed:	05/24/1991
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	REMOVED
Overfill:	MECHANICAL

Tank Number:	5
Tank Material:	DOUBLE-WALLED CP STEEL
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	05/12/2004
Tank Status Label:	REMOVED
Tank Sub Status Label:	SA APPROVED
Tank Volume in Gallons:	2000
Tank Above/Below:	BELOWGROUND
Installation Date:	05/24/1991
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Overfill Protection Label:	DROP TUBE
Latitude:	43.72809
Longitude:	-70.42550
Chamber ID:	1
Volume (gallons):	2000
Product Type:	UNLEADED PLUS
Pipe Status:	**REMOVED**
Pipe Status Date:	06/17/2004
Pipe Date Installed:	05/24/1991
Pipe Material Label:	F/GLASS - PETROLEUM
Pipe Status Label:	REMOVED
Overfill:	DROP_TUBE

Tank Number:	6
Tank Material:	JACKETED TANK - DOUBLE-WALLED
Tank Status:	**ACTIVE**
Tank Sub Status:	**ACTIVE**
Tank Status Date:	06/04/2004
Tank Status Label:	ACTIVE

LAMPRON LIL MART (Continued) **U003099493**

Tank Sub Status Label:	IN SERVICE
Tank Volume in Gallons:	15000
Tank Above/Below:	BELOWGROUND
Installation Date:	04/15/2004
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	PRESSURIZED
Chamber Pump type Desc:	PRESSURIZED
Pipe Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Overfill Protection Label:	DROP TUBE
Latitude:	43.72813
Longitude:	-70.42549
Chamber ID:	1
Volume (gallons):	10000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**ACTIVE**
Pipe Status Date:	06/30/2004
Pipe Date Installed:	06/04/0200
Pipe Material Label:	FLEXIBLE DOUBLE-WALLED PIPING
Pipe Status Label:	ACTIVE
Overfill:	DROP_TUBE

Tank Number:	6
Tank Material:	JACKETED TANK - DOUBLE-WALLED
Tank Status:	**ACTIVE**
Tank Sub Status:	**ACTIVE**
Tank Status Date:	06/04/2004
Tank Status Label:	ACTIVE
Tank Sub Status Label:	IN SERVICE
Tank Volume in Gallons:	15000
Tank Above/Below:	BELOWGROUND
Installation Date:	04/15/2004
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	PRESSURIZED
Chamber Pump type Desc:	PRESSURIZED
Pipe Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Overfill Protection Label:	DROP TUBE
Latitude:	43.72813
Longitude:	-70.42549

LAMPRON LIL MART (Continued) **U003099493**

Chamber ID:	2
Volume (gallons):	5000
Product Type:	UNLEADED GASOLINE
Pipe Status:	**ACTIVE**
Pipe Status Date:	06/30/2004
Pipe Date Installed:	06/04/2004
Pipe Material Label:	FLEXIBLE DOUBLE-WALLED PIPING
Pipe Status Label:	ACTIVE
Overfill:	DROP_TUBE

Tank Number:	7
Tank Material:	JACKETED TANK - DOUBLE-WALLED
Tank Status:	**ACTIVE**
Tank Sub Status:	**ACTIVE**
Tank Status Date:	06/04/2004
Tank Status Label:	ACTIVE
Tank Sub Status Label:	IN SERVICE
Tank Volume in Gallons:	8000
Tank Above/Below:	BELOWGROUND
Installation Date:	06/04/2004
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	PRESSURIZED
Chamber Pump type Desc:	PRESSURIZED
Pipe Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Overfill Protection Label:	DROP TUBE
Latitude:	43.72813
Longitude:	-70.42549
Chamber ID:	1
Volume (gallons):	5000
Product Type:	PREMIUM UNLEADED
Pipe Status:	**ACTIVE**
Pipe Status Date:	06/30/2004
Pipe Date Installed:	06/04/2004
Pipe Material Label:	FLEXIBLE DOUBLE-WALLED PIPING
Pipe Status Label:	ACTIVE
Overfill:	DROP_TUBE

Tank Number:	7
Tank Material:	JACKETED TANK - DOUBLE-WALLED
Tank Status:	**ACTIVE**
Tank Sub Status:	**ACTIVE**
Tank Status Date:	06/04/2004
Tank Status Label:	ACTIVE
Tank Sub Status Label:	IN SERVICE
Tank Volume in Gallons:	8000
Tank Above/Below:	BELOWGROUND

LAMPRON LIL MART (Continued) **U003099493**

Installation Date:	06/04/2004
Reg Date:	05/19/1987
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Chamber Pump Type Label:	SUCTION
Chamber Pump type Desc:	SUCTION
Pipe Leak Detection Label:	SECONDARY CONTAINMENT / CONT ELEC MON
Overfill Protection Label:	DROP TUBE
Latitude:	43.72813
Longitude:	-70.42549
Chamber ID:	2
Volume (gallons):	3000
Product Type:	#1 FUEL OIL - KEROSENE
Pipe Status:	**ACTIVE**
Pipe Status Date:	06/30/2004
Pipe Date Installed:	06/04/2004
Pipe Material Label:	FLEXIBLE DOUBLE-WALLED PIPING
Pipe Status Label:	ACTIVE
Overfill:	DROP_TUBE

G31 **LITTLE FALLS MINI MART GULF** **LUST** **S106674346**
South **688 GRAY RD - RT 202** **N/A**
1/8-1/4 **GORHAM, ME**
0.152 mi.
802 ft. **Site 6 of 7 in cluster G**

Relative:
Higher

Actual:
135 ft.

LUST:

Event:

Spill Number:	P-1015-2002
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	01/27/2003
Create By:	EISBREZI
Modify Date:	08/31/2004
Modify By:	EITGALLA
Report Status:	Final Report
Actual Spill Datetime:	07/22/2002
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Subject/Spiller
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	Storage Unit - Underground Storage Tank

LITTLE FALLS MINI MART GULF (Continued) **S106674346**

Material Disposal Info: waste re-used.

Change:
Description: Report Status change from P to FR
Date Change: 08/31/2004
Changed By: EITGALLA

Description: Report Status change from DQA to P
Date Change: 04/10/2003
Changed By: EIDFRITH

Description: Report Created with Report Status = DR
Date Change: 01/27/2003
Changed By: EISBREZI

Description: Report Status change from DR to DRV
Date Change: 01/27/2003
Changed By: EISBREZI

Description: Report Status change from DRV to DQA
Date Change: 02/18/2003
Changed By: EIJWOODA

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON ENERGY OIL CO
Address: 435 OSSIPEE TRAIL RT 25
City,State: GORHAM,ME
Country: USA
Zipcode: 04038
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN G BREZINSKI

File:
Spill Id: P-1015-2002
Date Created: 09/01/2004
Created By: EIPLAMBE
Date Modified: 08/06/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 06-AUG-09.
Reconcile Date: 09/01/2004
File Reconciled By: Not reported

Media Affected:
Medium: Engineered Containment

Log:

LITTLE FALLS MINI MART GULF (Continued) **S106674346**

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	1015
Spill Year:	2002
Create Date:	01/27/2003
Created By:	EISBREZI
Modify Date:	01/27/2003
Modify By:	EISBREZI
Log Spill Type:	Oil Incident
Log Spill Datetime:	07/22/2002
Spill Time Unk:	True
Spill Dt Unknown:	False
Log Rep Dt Tm:	07/22/2002
Log Rep Prod Cd:	23
Log Rep Prod:	Unleaded Gasoline
Log Emp Name:	STEPHEN G BREZINSKI
Location:	Lil' Falls Mini Mart, Lampron Energy
Log Location Town:	GROHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	product in tank's interstitial space.

Material Recovered:

Material Recovered Type:	VP
Material Recovered:	Unspilled Product
Material Amount:	5
Material Units:	gals.
Material Amt Qualifier:	ESTIMATE
Recovery Method:	Pumps

Spill Point:

Create Date:	9/10/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842661.0800000001
UTM East:	385190.59000000003
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	13230
GIS Sync Flag:	True

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	5
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	E-mail from Steve Brezinski dated 7/31/02 including site map

LITTLE FALLS MINI MART GULF (Continued) **S106674346**

Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	08/31/2004

G32
South
1/8-1/4
0.152 mi.
802 ft.

LITTLE FALLS MINI MART **LUST** **S105794982**
688 GRAY RD., RT. 202 **N/A**
GORHAM, ME

Site 7 of 7 in cluster G

Relative:
Higher

Actual:
135 ft.

LUST:

Event:

Spill Number:	P-697-2001
Spill Cause:	Other - No Cause
Spill Type:	Non-Oil, Non-Hazardous Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5090
Create Date:	03/01/2002
Create By:	EISBREZI
Modify Date:	05/21/2002
Modify By:	EIPCOLLI
Report Status:	Final Report
Actual Spill Datetime:	08/29/2001
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	DEP Personnel
Detection Method:	UST Tank Anomaly
Inc Location:	Terminal - Service Station
Inc Source:	No Source
Material Disposal Info:	n/a

Change:

Description:	Report Created with Report Status = DR
Date Change:	03/01/2002
Changed By:	EISBREZI
Description:	Report Status change from DR to DRV
Date Change:	03/01/2002
Changed By:	EISBREZI
Description:	Report Status change from DRV to DQA
Date Change:	04/30/2002
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	05/21/2002
Changed By:	EIPCOLLI
Description:	Not reported
Date Change:	10/07/2002

LITTLE FALLS MINI MART (Continued) **S105794982**

Changed By: eitgalla

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: Not reported
Title: Not reported
Company: LAMPRON ENERGY CO.
Address: 435 OSSIPEE TRAIL RT. 25
City,State: GORHAM,ME
Country: USA
Zipcode: 04038
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: STEPHEN G BREZINSKI

File:
Spill Id: P-697-2001
Date Created: 07/11/2002
Created By: EICSTULT
Date Modified: 03/31/2009
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 31-MAR-09.
Reconcile Date: 07/11/2002
File Reconciled By: Not reported

Media Affected:
Medium: None

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 697
Spill Year: 2001
Create Date: 02/28/2002
Created By: EIMBARTO
Modify Date: 03/01/2002
Modify By: EISBREZI
Log Spill Type: Non-Oil, Non-Hazardous Incident
Log Spill Datetime: 08/29/2001
Spill Time Unk: True
Spill Dt Unknown: False
Log Rep Dt Tm: 08/29/2001
Log Rep Prod Cd: 00
Log Rep Prod: None
Log Emp Name: STEPHEN G BREZINSKI
Location: Lampron Energy's LITTLE FALLS MINI MART (aka Lil Mart), 688 Gray Rd. (Rt. 202 & 237 intersection), Gorham.
Log Location Town: GORHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: LUST facility upgrade.

LITTLE FALLS MINI MART (Continued) **S105794982**

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported
Recovery Method:	None

Spill Point:

Create Date:	9/10/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842665.3099999996
UTM East:	385190.89000000001
GPS Unit:	TANKS
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	11639
GIS Sync Flag:	True

Product:

Product Code:	None
Product Other:	Not reported
Product Amt:	0
Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	True

Attachments:

Description:	site sketch.
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	03/01/2002

F33 **SHAUGHNESSY, MICHAEL** **LAST** **S105002478**
NNW **32 MAIN ST.** **N/A**
1/8-1/4 **WINDHAM, ME**
0.173 mi.
911 ft. **Site 2 of 2 in cluster F**

Relative: Higher

Actual: 144 ft.

LAST:

Event:

Spill Number:	P-728-1999
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	False

SHAUGHNESSY, MICHAEL (Continued) **S105002478**

Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	05/09/2002
Modify By:	05/09/2002
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported
Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5250
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	2
Reporter Type:	Subject/Spiller
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	03
Spill Cause:	Corrosion - Piping
Material Disposal Info:	Contaminated soil to Commercial Recycling.

Change:

Description:	Not reported
Date Change:	02/22/2002
Changed By:	eipcolli
Description:	Not reported
Date Change:	05/09/2002
Changed By:	eipcolli
Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	MICHAEL SHAUGHNESSY
Title:	Not reported
Company:	Not reported
Address:	43 PARK RD.
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	SHERYL BERNARD

SHAUGHNESSY, MICHAEL (Continued) **S105002478**

File:

Spill Id:	P-728-1999
Date Created:	06/11/2002
Created By:	EICSTULT
Date Modified:	09/23/2008
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 23-SEP-08.
Reconcile Date:	06/11/2002
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	728
Spill Year:	1999
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	10/08/1999
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	SHERYL BERNARD
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	1.32
Material Units:	tons
Material Amt Qualifier:	ACTUAL

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported

SHAUGHNESSY, MICHAEL (Continued) **S105002478**

GIS Object Id: Not reported
GIS Sync Flag: Not reported

Recovery Method: Excavation

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: 50
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

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34 **L.C. ANDREWS LUMBER MILL** **ALLSITES** **S105738358**
North **MAIN STREET** **INST CONTROL** **N/A**
1/8-1/4 **WINDHAM, ME** **VCP**
0.181 mi.
958 ft.

Relative:
Higher

Actual:
132 ft.

ALLSITES:
Status: NO FURTHER ACTION
Program Type: VRAP
Lat/Long: 43.737128 / -70.423962
IC: TRUE

INST CONTROL:
Facility ID: REM01216
Facility Status: NO FURTHER ACTION
Program Type: VRAP
Lat/Long: 43.737128 / -70.423962
Inst Controls: TRUE

VCP:
Facility ID: REM01216
Facility status: NO FURTHER ACTION
Program Type: VRAP
Lat/Long: 43.737128 / -70.423962
Inst Controls: TRUE

35 SE 1/8-1/4 0.182 mi. 959 ft. | **EMERGENCY MANAGEMENT BUNKER**
22 HIGH STREET
WINDHAM, ME | **LUST** | **S104217718**
N/A

Relative: Higher

Actual: 188 ft.

LUST:

Event:

Spill Number:	P-718-1994
Spill Cause:	Other - No Cause
Spill Type:	Non-Oil, Non-Hazardous Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5250
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	1
Number Wells Impacted:	2
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Tank and/or Piping Removal
Inc Location:	Government, Municipal or Religious Facility
Inc Source:	Not reported
Material Disposal Info:	Not reported

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	COUNTY CUMBERLAND
Title:	Not reported
Company:	Not reported
Address:	142 FEDERAL STREET
City,State:	PORTLAND,ME
Country:	Not reported
Zipcode:	04101
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	LINDA DORAN

File:

Spill Id:	P-718-1994
Date Created:	02/27/1995
Created By:	SPILLS

EMERGENCY MANAGEMENT BUNKER (Continued) **S104217718**

Date Modified:	05/15/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 15-MAY-07.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	None

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	718
Spill Year:	1994
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Log Spill Type:	Non-Oil, Non-Hazardous Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	11/16/1994
Log Rep Prod Cd:	22
Log Rep Prod:	Leaded Gasoline
Log Emp Name:	LINDA DORAN
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported
Recovery Method:	Other

Spill Point:

Create Date:	12/10/2001
Created By:	SPILLS
Modify Date:	9/10/2008
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842943.3799999999
UTM East:	385689.01000000001
GPS Unit:	Unknown
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	2315
GIS Sync Flag:	True

EMERGENCY MANAGEMENT BUNKER (Continued) **S104217718**

Product:

Product Code:	None
Product Other:	Not reported
Product Amt:	0
Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

Event:

Spill Number:	P-718-1994
Spill Cause:	Other - No Cause
Spill Type:	Non-Oil, Non-Hazardous Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5250
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	1
Number Wells Impacted:	2
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Tank and/or Piping Removal
Inc Location:	Government, Municipal or Religious Facility
Inc Source:	Not reported
Material Disposal Info:	Not reported

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	COUNTY CUMBERLAND
Title:	Not reported
Company:	Not reported
Address:	142 FEDERAL STREET
City,State:	PORTLAND,ME
Country:	Not reported

EMERGENCY MANAGEMENT BUNKER (Continued) **S104217718**

Zipcode: 04101
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: LINDA DORAN

File:
Spill Id: P-718-1994
Date Created: 02/27/1995
Created By: SPILLS
Date Modified: 05/15/2007
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 15-MAY-07.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: None

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 718
Spill Year: 1994
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Log Spill Type: Non-Oil, Non-Hazardous Incident
Log Spill Datetime: Not reported
Spill Time Unk: True
Spill Dt Unknown: True
Log Rep Dt Tm: 11/16/1994
Log Rep Prod Cd: 22
Log Rep Prod: Leaded Gasoline
Log Emp Name: LINDA DORAN
Location: Not reported
Log Location Town: WINDHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: Not reported
Material Recovered: Not reported
Material Amount: Not reported
Material Units: Not reported
Material Amt Qualifier: Not reported

Recovery Method: Other

Spill Point:

EMERGENCY MANAGEMENT BUNKER (Continued) **S104217718**

Create Date:	12/10/2001
Created By:	SPILLS
Modify Date:	9/10/2008
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842943.3799999999
UTM East:	385689.01000000001
GPS Unit:	Unknown
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	2315
GIS Sync Flag:	True

Product:

Product Code:	None
Product Other:	Not reported
Product Amt:	0
Product Amt Unit:	gals.
Product Amt Qualifier:	ACTUAL
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

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36 NNE 1/8-1/4 0.183 mi. 967 ft. **DEPOT ENERGY INC** **UST** **U002164522**
29 DEPOT ST **N/A**
WINDHAM, ME

Relative: Higher

Actual: 163 ft.

UST:

Facility ID:	8058
Facility Location2:	WINDHAM
Facility Code:	COMMERCIAL
Fed Reg Ind:	Yes
Owner Name:	LASKEY, MERRILL
Owner Contact:	Not reported
Owner Delivery Address:	68 HIGH ST
Owner City/State/Zip:	WINDHAM, ME 04062
Owner Telephone:	2078924998
Operator Contact:	Not reported
Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	10/28/1993
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	550

DEPOT ENERGY INC (Continued) **U002164522**

Tank Above/Below:	BELOWGROUND
Installation Date:	08/01/1983
Reg Date:	10/09/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	SIA STATISTICAL INVENTORY ANALYSIS
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	550
Product Type:	REGULAR GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	10/28/1993
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	09/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	3000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	10/09/1986
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	3000

DEPOT ENERGY INC (Continued) **U002164522**

Product Type:	UNKNOWN SUBSTANCE
Pipe Status:	**REMOVED**
Pipe Status Date:	09/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	OTHER
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

37
SSW
1/8-1/4
0.191 mi.
1010 ft.

PIETER VAN EEKELEN
14 PLEASANT ST
GORHAM, ME

LAST **S108052127**
N/A

Relative:
Higher

Actual:
142 ft.

LAST:

Event:

Spill Number:	P-779-2004
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	False
AST inside flag:	True
Create Date:	09/14/2004
Create By:	EICPAQUE
Modify Date:	07/07/2006
Modify By:	07/07/2006
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	Not reported
Spill Date Unknown:	True
Spill Time Unknown:	True
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	7
Reporter Type:	Other Involved Party
Detection Method Code:	H
Detection Method:	Odor/Vapor/Mist
Inc Location Code:	MF
Inc Location:	Residential - Multi Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	08
Spill Cause:	Mechanical Failure - Loose Fitting
Material Disposal Info:	All waste brought to Commercial Paving

Change:

Description:	Report Status change from P to FR
Date Change:	07/07/2006
Changed By:	EITGALLA
Description:	Report Status change from DR to DRV
Date Change:	10/13/2005
Changed By:	EIAHEMEN

PIETER VAN EEKELEN (Continued) **S108052127**

Description: Report Status change from DRV to DQA
Date Change: 10/19/2005
Changed By: EIJWOODA

Description: Report Status change from DQA to P
Date Change: 10/28/2005
Changed By: EITGALLA

Description: Report Created with Report Status = DR
Date Change: 09/14/2004
Changed By: EICPAQUE

Contact:
Contact Type: Subject/Spiller
Potential RP: True
Name: PIETER C VAN EEKELEN
Title: Not reported
Company: Not reported
Address: C/O MAJIM ANIMASHAUN PO BOX 2397
City,State: SOUTH PORTLAND,ME
Country: USA
Zipcode: 04106
Phone/Ext: /
Comments: Not reported

Primary Employee:
Primary Employee: True
Name: ANN E HEMENWAY

File:
Spill Id: P-779-2004
Date Created: 07/07/2006
Created By: IMAGING
Date Modified: 07/07/2006
Modified By: IMAGING
File Num Sheets: 0
Notes: Report scanned into the imaging system on 07-JUL-06.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Groundwater

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 779
Spill Year: 2004
Create Date: 09/14/2004
Created By: EICPAQUE
Modify Date: 10/14/2004
Modify By: EIAHEMEN
Log Spill Type: Oil Incident

PIETER VAN EEKELEN (Continued) **S108052127**

Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	09/11/2004
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	ANN E HEMENWAY
Location:	Pieter C. Van Eekelen Rental Property 14 Pleasant Street
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Line disconnected from furnace.

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	UNKNOWN
Material Recovered Type:	MM
Material Recovered:	Mixed Liquid Media
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	UNKNOWN
Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	6.62
Material Units:	tons
Material Amt Qualifier:	ACTUAL

Spill Point:

Create Date:	2/7/2008
Created By:	EICHALST
Modify Date:	7/15/2009
Modify By:	EICHALST
Point Type Code:	ASP
UTM North:	4842845.8700000001
UTM East:	385096.31
GPS Unit:	EGAD
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Response_Spill_Points
GIS Object Id:	3932
GIS Sync Flag:	True
Recovery Method:	Pumps
Recovery Method:	Vacuum Trucks
Recovery Method:	Sorbents
Recovery Method:	Excavation

Product:

Product Code:	#2 Fuel Oil

PIETER VAN EEKELEN (Continued) **S108052127**

Product Other:	Not reported
Product Amt:	200
Product Amt Unit:	gals.
Product Amt Qualifier:	ESTIMATE
Primary Product:	True

Attachments:

Description:	Referral to PETER M EREMITA
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	07/07/2006

Description:	Waste Processing Letter
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	10/13/2005

Description:	Soil Disposal Letter
Attach Type:	Paper Attach
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	10/13/2005

Description:	Expense Tracking
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	10/14/2004

H38 **LC ANDREW INC** **UST** **U003100085**
NNW **35 MAIN ST** **N/A**
1/8-1/4 **WINDHAM, ME**
0.213 mi.
1124 ft. **Site 1 of 3 in cluster H**

Relative:
Higher

Actual:
141 ft.

UST:

Facility ID:	16234
Facility Location2:	WINDHAM
Facility Code:	COMMERCIAL
Fed Reg Ind:	Yes
Owner Name:	LC ANDREW INC
Owner Contact:	Not reported
Owner Delivery Address:	RT 202
Owner City/State/Zip:	SOUTH WINDHAM, ME 04062
Owner Telephone:	2078928561
Operator Contact:	Not reported

Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**

LC ANDREW INC (Continued) **U003100085**

Tank Sub Status:	**REMOVED**
Tank Status Date:	11/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	09/25/1989
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	10000
Product Type:	REGULAR GASOLINE
Pipe Status:	**REMOVED**
Pipe Status Date:	11/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	11/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	10000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	09/25/1989
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN

LC ANDREW INC (Continued) **U003100085**

Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	10000
Product Type:	DIESEL
Pipe Status:	**REMOVED**
Pipe Status Date:	11/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

H39
NNW
1/8-1/4
0.213 mi.
1124 ft.

Relative:
Higher

Actual:
141 ft.

MAINE CEDAR LOG HOMES **LUST** **S110768010**
35 MAIN STREET **N/A**
WINDHAM, ME

Site 2 of 3 in cluster H

LUST:

Event:

Spill Number:	P-433-2007
Spill Cause:	Other - Unknown
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5250
Create Date:	06/18/2007
Create By:	EIJWOODA
Modify Date:	03/01/2011
Modify By:	EIELEIGH
Report Status:	Final Report
Actual Spill Datetime:	Not reported
Actual Spill Date Unknown:	True
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Site Assessment
Inc Location:	Business - Commercial
Inc Source:	Storage Unit - Underground Storage Tank
Material Disposal Info:	CS to Commercial Recycling

Change:

Description:	Report Status change from DR to DQA
Date Change:	02/02/2010
Changed By:	EIJWOODA
Description:	Report Created with Report Status = DR
Date Change:	06/18/2007
Changed By:	EIJWOODA
Description:	Report Status change from DQA to FR
Date Change:	03/01/2011
Changed By:	EIELEIGH

MAINE CEDAR LOG HOMES (Continued) **S110768010**

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	MAINE CEDAR LOG HOMES REALTY INC
Address:	33 MAINE STREET
City,State:	WINDHAM,ME
Country:	USA
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	JON L WOODARD

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	433
Spill Year:	2007
Create Date:	06/18/2007
Created By:	EIJWOODA
Modify Date:	06/18/2007
Modify By:	EIJWOODA
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	06/15/2007
Log Rep Prod Cd:	20
Log Rep Prod:	Gasoline Unspecified
Log Emp Name:	JON L WOODARD
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	CS
Material Recovered:	Contaminated Soil
Material Amount:	1000
Material Units:	cu. yds.
Material Amt Qualifier:	ESTIMATE
Recovery Method:	Excavation

Spill Point:

Create Date:	Not reported
Created By:	Not reported

MAINE CEDAR LOG HOMES (Continued) **S110768010**

Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported

Product:

Product Code:	Gasoline Unspecified
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	UNKNOWN
Primary Product:	True

Attachments:

Description:	Spill Debris
Attach Type:	Electronic Form
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	06/18/2007

H40
NNW
1/8-1/4
0.213 mi.
1124 ft.

L.C. ANDREW, INC.
35 MAIN STREET
WINDHAM, ME 04062

MANIFEST **S109767991**
N/A

Site 3 of 3 in cluster H

Relative:
Higher

Actual:
141 ft.

CT MANIFEST:

Waste:

Manifest No:	CTC0292253
Waste Occurence:	1
UNNA:	1993
Hazard Class:	FLAMMABLE
US Dot Description:	WASTE FLAMMABLE LIQUID, NOS
No of Containers:	001
Container Type:	TT
Quantity:	125
Weight/Volume:	G
Additional Description:	Y
Handling Code:	T01
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTC0292253
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F

L.C. ANDREW, INC. (Continued) **S109767991**

Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year:	1989
Manifest ID:	CTC0292253
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESOURCES, INC.
TSDF Address:	130 FREIGHT STREET
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/3/1989
Transporter EPA ID:	NHD980521843
Transporter Name:	TOTAL WASTE MANAGEMENT
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	NHD980521843
Trans 2 Name:	TOTAL WASTE MANAGEMENT
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	MEP000005508
Generator Phone:	2078928561
Generator Mailing Addr:	35 MAIN STREET
Generator Mailing Town:	WINDHAM
Generator Mailing State:	ME
Generator Mailing Zip:	04062
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	11/3/1989
Date Received:	11/7/1989
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

41
SW
1/4-1/2
0.266 mi.
1404 ft.

KELLY COLARUSSO
25 HANNAH DR
GORHAM, ME

LAST **S109799061**
N/A

Relative:
Higher

Actual:
135 ft.

LAST:

Event:

Spill Number:	P-771-2006
Inc Tank Code:	A
Inc Tank:	Above Ground Tank(s) Involved
Removal Flag:	False
UST registered flag:	True
AST inside flag:	True
Create Date:	10/19/2006
Create By:	EICPAQUE
Modify Date:	07/31/2009

KELLY COLARUSSO (Continued) **S109799061**

Modify By:	07/31/2009
Report Status Code:	FR
Report Status:	Final Report
Spill Datetime:	09/22/2006
Spill Date Unknown:	False
Spill Time Unknown:	False
Number of wells at risk:	0
Number of wells impacted:	0
DTREE completed flag:	False
MCD Value:	5090
Further response action:	False
Spill Type Code:	O
Spill Type:	Oil Incident
Reporter Type Code:	2
Reporter Type:	Subject/Spiller
Detection Method Code:	L
Detection Method:	Visual Product
Inc Location Code:	SF
Inc Location:	Residential - Single Family
Inc Source Code:	TA
Inc Source:	Storage Unit - Aboveground Storage Tank
Spill Cause Code:	30
Spill Cause:	Other - Known Cause
Material Disposal Info:	Contaminated materials to be disposed of appropriately.

Change:

Description:	Report Created with Report Status = DR
Date Change:	10/19/2006
Changed By:	EICPAQUE
Description:	Report Status change from DQA to FR
Date Change:	07/31/2009
Changed By:	EIJLYONS
Description:	Report Status change from DRV to DQA
Date Change:	11/26/2008
Changed By:	EIJWOODA
Description:	Report Status change from DR to DRV
Date Change:	01/30/2007
Changed By:	EIGOBRIE

Contact:

Contact Type:	Subject/Spiller
Potential RP:	True
Name:	Not reported
Title:	Not reported
Company:	YORKIE OIL
Address:	154 PLEASANT HILL RD
City,State:	SCARBOROUGH,ME
Country:	USA
Zipcode:	04074
Phone/Ext:	/
Comments:	Not reported
Contact Type:	Other Contact
Potential RP:	False

KELLY COLARUSSO (Continued) **S109799061**

Name:	KELLY COLARUSSO
Title:	Not reported
Company:	Not reported
Address:	25 HANNAH DR
City,State:	GORHAM,ME
Country:	USA
Zipcode:	04038
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	GREGORY B O'BRIEN

File:

Spill Id:	P-771-2006
Date Created:	08/03/2009
Created By:	IMAGING
Date Modified:	08/03/2009
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 03-AUG-09.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	771
Spill Year:	2006
Create Date:	10/19/2006
Created By:	EICPAQUE
Modify Date:	01/19/2007
Modify By:	EIGOBRIE
Log Spill Type:	Oil Incident
Log Spill Datetime:	Not reported
Spill Time Unk:	True
Spill Dt Unknown:	True
Log Rep Dt Tm:	09/22/2006
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	GREGORY B O'BRIEN
Location:	Colarusso 25 Hannah Drive
Log Location Town:	GORHAM
Log Tank Involved:	Above Ground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	OM
Material Recovered:	Other Material
Material Amount:	Not reported
Material Units:	Not reported

KELLY COLARUSSO (Continued) **S109799061**

Material Amt Qualifier: UNKNOWN

Spill Point:
Create Date: Not reported
Created By: Not reported
Modify Date: Not reported
Modify By: Not reported
Point Type Code: Not reported
UTM North: Not reported
UTM East: Not reported
GPS Unit: Not reported
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Not reported
GIS Object Id: Not reported
GIS Sync Flag: Not reported

Recovery Method: Sorbents

Product:
Product Code: #2 Fuel Oil
Product Other: Not reported
Product Amt: .5
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: True

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

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42 SE 1/4-1/2 0.476 mi. 2513 ft. | **MAINE CORRECTIONAL CENTER**
RIVER ROAD
WINDHAM, ME | **SHWS** **ALLSITES** **LUST** | **S103169960** **N/A**

Relative: Higher

Actual: 149 ft.

SHWS:
Facility ID: REM00908
Facility Status: Referred to Other Programs
Program Type: Not reported
Lat/Long: 43.725063 / -70.413036
IC: UNKNOWN

ALLSITES:
Status: REFERRED TO OTHER PROGRAMS
Program Type: UNCONTROLLED SITES
Lat/Long: 43.725063 / -70.413036
IC: UNKNOWN

MAINE CORRECTIONAL CENTER (Continued) **S103169960**

LUST:

Event:

Spill Number:	P-96-1998
Spill Cause:	Corrosion - Tank
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	True
MCD Value:	5250
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	03/03/1998
Actual Spill Date Unknown:	False
Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Tank and/or Piping Removal
Inc Location:	Government - State of Maine
Inc Source:	Not reported
Material Disposal Info:	soil to ARC

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	MAINE CORRECTIONAL CENTER
Address:	PO BOX 260
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	04062
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	LINDA DORAN

File:

Spill Id:	P-96-1998
Date Created:	04/11/2001
Created By:	SPILLS
Date Modified:	03/11/2008
Modified By:	IMAGING
File Num Sheets:	0

MAINE CORRECTIONAL CENTER (Continued) **S103169960**

Notes: Report scanned into the imaging system on 11-MAR-08.
Reconcile Date: Not reported
File Reconciled By: Not reported

Media Affected:
Medium: Groundwater

Medium: Land

Log:
Spill Void Flag: False
Spill Office: Portland
Spill Off Sequence: 96
Spill Year: 1998
Create Date: 12/07/2001
Created By: SPILLS
Modify Date: 12/07/2001
Modify By: SPILLS
Log Spill Type: Oil Incident
Log Spill Datetime: 03/03/1998
Spill Time Unk: True
Spill Dt Unknown: False
Log Rep Dt Tm: 03/03/1998
Log Rep Prod Cd: 20
Log Rep Prod: Gasoline Unspecified
Log Emp Name: LINDA DORAN
Location: Not reported
Log Location Town: WINDHAM
Log Tank Involved: Underground Tank(s) Involved
Notes: Not reported

Material Recovered:
Material Recovered Type: MM
Material Recovered: Mixed Liquid Media
Material Amount: 25
Material Units: gals.
Material Amt Qualifier: ESTIMATE

Recovery Method: Excavation

Spill Point:
Create Date: 9/10/2008
Created By: EICHALST
Modify Date: 7/15/2009
Modify By: EICHALST
Point Type Code: ASP
UTM North: 4842538.7699999996
UTM East: 386123.14000000001
GPS Unit: TANKS
GPS Date: Not reported
GPS Time: Not reported
GIS Feature Class: Response_Spill_Points
GIS Object Id: 12160
GIS Sync Flag: True

MAINE CORRECTIONAL CENTER (Continued) **S103169960**

Product:
Product Code: Gasoline Unspecified
Product Other: Not reported
Product Amt: 50
Product Amt Unit: gals.
Product Amt Qualifier: ESTIMATE
Primary Product: False

Attachments:
Description: Not reported
Attach Type: Not reported
File Name: Not reported
File Code: Not reported
File Size: Not reported
File Modify Date: Not reported

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43 ESE 1/4-1/2 0.484 mi. 2555 ft.

RICH TOOL & DIE CO
3 MALLISON FALLS RD
WINDHAM, ME 04062

RCRA-NonGen **1000445399**
FINDS **MED985468099**
LUST
UST

Relative: Higher

Actual: 109 ft.

RCRA-NonGen:
Date form received by agency: 05/24/1990
Facility name: RICH TOOL & DIE CO
Facility address: 3 MALLISON FALLS RD
WINDHAM, ME 04062
EPA ID: MED985468099
Mailing address: MALLISON FALLS RD
WINDHAM, ME 04062
Contact: GEORGE-H MERKLE
Contact address: 3 MALLISON FALLS RD
WINDHAM, ME 04062
Contact country: US
Contact telephone: (207) 892-2561
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RICH TOOL & DIE CO
Owner/operator address: OWNERSTREET
OWNERCITY, ME OWNER
Owner/operator country: Not reported
Owner/operator telephone: (207) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

RICH TOOL & DIE CO (Continued) **1000445399**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	F002
Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Violation Status:	No violations found

FINDS:

Registry ID: 110003557419

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Event:

Spill Number:	P-500-1992
Spill Cause:	Corrosion - Tank
Spill Type:	Oil Incident
Inc Tank:	Underground Tank(s) Involved
Removal Flag:	False
UST Registered Flag:	False
MCD Value:	5250
Create Date:	12/07/2001
Create By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS
Report Status:	Final Report
Actual Spill Datetime:	06/30/1992
Actual Spill Date Unknown:	False

RICH TOOL & DIE CO (Continued) **1000445399**

Number Wells At Risk:	0
Number Wells Impacted:	0
Dtree Completed Flag:	False
Further Response Action:	False
Reporter Type:	Contractor/Consultant
Detection Method:	Tank and/or Piping Removal
Inc Location:	Business - Industrial
Inc Source:	Not reported
Material Disposal Info:	LANDSPREAD ON SITE

Change:

Description:	Report Created with Report Status = FR
Date Change:	12/07/2001
Changed By:	SPILLS

Contact:

Contact Type:	Subject/Spiller
Potential RP:	False
Name:	Not reported
Title:	Not reported
Company:	RICH TOOL & DIE
Address:	3 MALLISON FALLS RD.
City,State:	WINDHAM,ME
Country:	Not reported
Zipcode:	Not reported
Phone/Ext:	/
Comments:	Not reported

Primary Employee:

Primary Employee:	True
Name:	JOHN DUNLAP

File:

Spill Id:	P-500-1992
Date Created:	03/26/1993
Created By:	SPILLS
Date Modified:	10/02/2007
Modified By:	IMAGING
File Num Sheets:	0
Notes:	Report scanned into the imaging system on 02-OCT-07.
Reconcile Date:	Not reported
File Reconciled By:	Not reported

Media Affected:

Medium:	Land

Log:

Spill Void Flag:	False
Spill Office:	Portland
Spill Off Sequence:	500
Spill Year:	1992
Create Date:	12/07/2001
Created By:	SPILLS
Modify Date:	12/07/2001
Modify By:	SPILLS

RICH TOOL & DIE CO (Continued) **1000445399**

Log Spill Type:	Oil Incident
Log Spill Datetime:	06/30/1992
Spill Time Unk:	False
Spill Dt Unknown:	False
Log Rep Dt Tm:	06/30/1992
Log Rep Prod Cd:	02
Log Rep Prod:	#2 Fuel Oil
Log Emp Name:	JOHN DUNLAP
Location:	Not reported
Log Location Town:	WINDHAM
Log Tank Involved:	Underground Tank(s) Involved
Notes:	Not reported

Material Recovered:

Material Recovered Type:	Not reported
Material Recovered:	Not reported
Material Amount:	Not reported
Material Units:	Not reported
Material Amt Qualifier:	Not reported
Recovery Method:	Excavation

Spill Point:

Create Date:	Not reported
Created By:	Not reported
Modify Date:	Not reported
Modify By:	Not reported
Point Type Code:	Not reported
UTM North:	Not reported
UTM East:	Not reported
GPS Unit:	Not reported
GPS Date:	Not reported
GPS Time:	Not reported
GIS Feature Class:	Not reported
GIS Object Id:	Not reported
GIS Sync Flag:	Not reported

Product:

Product Code:	#2 Fuel Oil
Product Other:	Not reported
Product Amt:	Not reported
Product Amt Unit:	Not reported
Product Amt Qualifier:	Not reported
Primary Product:	False

Attachments:

Description:	Not reported
Attach Type:	Not reported
File Name:	Not reported
File Code:	Not reported
File Size:	Not reported
File Modify Date:	Not reported

RICH TOOL & DIE CO (Continued) **1000445399**

UST:

Facility ID:	15222
Facility Location2:	WINDHAM
Facility Code:	COMMERCIAL
Fed Reg Ind:	No
Owner Name:	RICH TOOL & DIE CO
Owner Contact:	Not reported
Owner Delivery Address:	3 MALLISON FALLS RD
Owner City/State/Zip:	WINDHAM, ME 04062
Owner Telephone:	2078922561
Operator Contact:	Not reported
Tank Number:	1
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	02/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	3000
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	09/21/1988
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	3000
Product Type:	#2 FUEL OIL
Pipe Status:	**REMOVED**
Pipe Status Date:	02/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN
Tank Number:	2
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	02/01/1989
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	3000

RICH TOOL & DIE CO (Continued) **1000445399**

Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	09/21/1988
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	3000
Product Type:	#2 FUEL OIL
Pipe Status:	**REMOVED**
Pipe Status Date:	02/01/1989
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Tank Number:	3
Tank Material:	STEEL - BARE OR ASPHALT COATED.
Tank Status:	**REMOVED**
Tank Sub Status:	**REMOVED**
Tank Status Date:	06/01/1992
Tank Status Label:	REMOVED
Tank Sub Status Label:	Not reported
Tank Volume in Gallons:	500
Tank Above/Below:	BELOWGROUND
Installation Date:	10/01/1969
Reg Date:	09/21/1988
Near Public Water:	No
Near Pvt Water:	No
Near Other Water:	No
On Aquifer:	No
Near Private Water Label:	Not reported
Near Public Water Label:	Not reported
Nearby Water Other Owner Label:	Not reported
On Aquifer Label:	Not reported
Tank Leak Detection Label:	UNKNOWN
Chamber Pump Type Label:	UNKNOWN
Chamber Pump type Desc:	UNKNOWN
Pipe Leak Detection Label:	UNKNOWN
Overfill Protection Label:	UNKNOWN
Latitude:	Not reported
Longitude:	Not reported
Chamber ID:	1
Volume (gallons):	500

RICH TOOL & DIE CO (Continued) **1000445399**

Product Type:	#2 FUEL OIL
Pipe Status:	**REMOVED**
Pipe Status Date:	06/01/1992
Pipe Date Installed:	Not reported
Pipe Material Label:	GALVANIZED STEEL
Pipe Status Label:	REMOVED
Overfill:	UNKNOWN

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WINDHAM	1000184873	JORDANS NORGE VILLAGE	ROUTE 302	04062	FINDS,RCRA-NLR
WINDHAM	1003862461	MAINE COASTAL SERV	RIVER ROAD	04062	CERCLIS-NFRAP
CHELSEA	1008375581	MCCULLOUGHS GARAGE	RTE 110 BOX 5	04038	RCRA-CESQG
WINDHAM	2000541926	LITTLE SEBAGO LAKE	LITTLE SEBAGO LAKE	0	ERNS
WINDHAM	S104207034	MAINE CORRECTIONAL CENTER	119 MALLISON STREET		LUST,SPILLS
WINDHAM	S104999865	BOMB SHELTER	HIGH STREET		LAST
WINDHAM	S105972315	WINDHAM HIGH SCHOOL(MODULAR CLASS	ROUTE 202		LAST
WINDHAM	S106715745	ROUTE 115	CORNER RT. 115 & BRAND KNIGHT		HWS,ALLSITES
WINDHAM	S106787791	C N BROWN BIG APPLE	RT. 302		LUST
WINDHAM	S106789124	RICH TOOL & DIE	MALLISON DRIVE		LUST
WINDHAM	S106789390	D & J EXCAVATING	RT. 302		LUST
WINDHAM	S106790175	WINDHAM PUBLIC WORKS	WINDHAM CTR. RD.		LUST,SPILLS
WINDHAM	S106791223	C N BROWN (NORTH WINDHAM CAR WASH)	RT. 302		LUST
NORTH WINDHAM	S106800011	PRATT - ABBOTT NORTH WINDHAM	RTE 302	04062	DRYCLEANERS
WINDHAM	S106894119	CUMBERLAND FARMS #1836	ROUTE 302		LUST
WINDHAM	S109156038	MYSTERY GASOLINE DISCHARGE	809 TO 828 GRAY RD, ROUTE 202		LUST,SPILLS
GORHAM	S109766967	REYNOLDS SPORTS CENTER	RTE 202	04038	MANIFEST
BUSINESS PARK NORTH	S109769047	THE GARAGE, INC.	ROUTE 115	04062	MANIFEST
WINDHAM	S110310511	WINDHAM LANDFILL TRANSFER STA	RTE 302		LF
WINDHAM	U000245570	WINDHAM PUBLIC SAFETY FACILITY	ROUTE 202		UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/07/2011
Date Data Arrived at EDR: 10/12/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 141

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2012
Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/07/2011
Date Data Arrived at EDR: 10/12/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 141

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2012
Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/07/2011	Source: EPA
Date Data Arrived at EDR: 10/12/2011	Telephone: N/A
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 141	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 04/12/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/13/2012
Next Scheduled EDR Contact: 05/28/2012
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/10/2011
Date Data Arrived at EDR: 01/05/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/04/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/10/2011
Date Data Arrived at EDR: 01/05/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/04/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/10/2011
Date Data Arrived at EDR: 01/05/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/04/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/10/2011
Date Data Arrived at EDR: 01/05/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/04/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011
Date Data Arrived at EDR: 12/30/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/12/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011
Date Data Arrived at EDR: 12/30/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/12/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Remediation Sites List

Uncontrolled Sites locations included in the Remediation Sites List.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-4850
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2012
Date Data Arrived at EDR: 02/14/2012
Date Made Active in Reports: 03/08/2012
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 02/13/2012
Next Scheduled EDR Contact: 05/28/2012
Data Release Frequency: Annually

LCP: Municipal Landfill Closure Database

The Municipal Landfill Closure and Remediation Program was established in 1988 to assist nearly 400 municipalities with the closure of their unlicensed municipal solid waste landfills. Project managers in this program have conducted site investigations and provided technical engineering assistance to aid municipalities in this process. Funding to accomplish this goal was provided by the state, utilizing several bonds that supported a 75% state cost sharing reimbursement process.

Date of Government Version: 11/14/2011
Date Data Arrived at EDR: 11/15/2011
Date Made Active in Reports: 11/30/2011
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 207-287-8552
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 05/28/2012
Data Release Frequency: No Update Planned

State and tribal leaking storage tank lists

LUST: Hazardous Material and Oil Spill System Database (H.O.S.S.)

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/04/2012
Date Data Arrived at EDR: 02/08/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 02/08/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Quarterly

LAST: HOSS Database

A listing of leaking aboveground storage tanks.

Date of Government Version: 02/04/2012
Date Data Arrived at EDR: 02/08/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 02/08/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/01/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 50

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/23/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 10

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/01/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/07/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/01/2012
Date Data Arrived at EDR: 02/20/2012
Date Made Active in Reports: 03/08/2012
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 02/20/2012
Next Scheduled EDR Contact: 06/04/2012
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 09/20/2011
Date Made Active in Reports: 10/05/2011
Number of Days to Update: 15

Source: Maine Emergency Management Agency
Telephone: 207-626-4503
Last EDR Contact: 03/19/2012
Next Scheduled EDR Contact: 07/02/2012
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 10

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/01/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011
Date Data Arrived at EDR: 11/29/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 42

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/23/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 50

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 18

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/10/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Remediation Sites List

Sites with Institutional Controls in place included in the Remediation Sites List. Institutional Controls are legally enforceable site use restrictions recorded on the property deed and therefore operate in perpetuity regardless of change in site ownership.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Remediation Sites List

Voluntary Response Action Program sites included in the Remediation Sites List. VRAP promotes the investigation, remediation and redevelopment of contaminated properties by offering liability assurances/protections from state enforcement actions for applicants to the program.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-4854
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 08/04/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Remediation Sites List
Brownfields site locations included in the Remediation Sites List. Brownfields are "Real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant".

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-7716
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/27/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 03/26/2012
Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities
A listing of municial colletcion sites for electronic waste and mercury-added products.

Date of Government Version: 12/13/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/23/2012
Number of Days to Update: 39

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 03/16/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/06/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 10/07/2011
Date Data Arrived at EDR: 12/09/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 32

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/06/2012
Next Scheduled EDR Contact: 06/18/2012
Data Release Frequency: Quarterly

ALLSITES: Remediation Sites List
The Sites List Database is the public record of information regarding properties that have been, are now, or are planned to be addressed by the Division of Remediation of the Bureau of Remediation and Waste Management. This database is not intended to be a comprehensive, all-inclusive source of information regarding the properties listed therein.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-4850
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Quarterly

DEL HWS: Sites Removed from the Uncontrolled Sites List
Sites are removed from the List once it is determined that they are not "worthy of listing". This term is used as there are a number of reasons to remove a site from the List, including: no file exists, the site was reported as an oil spill, there is no evidence of a hazardous substance release or based on an investigation the site is referred to another program unrelated to hazardous substance or hazardous waste. Sites are removed on a case by case basis. The USP intends this to be an on-going process, as time and resources allow.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 02/01/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Semi-Annually

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 06/04/2012
Data Release Frequency: Varies

LIENS: Environmental Liens Information Listing

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC ? 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 02/02/2012
Date Data Arrived at EDR: 02/03/2012
Date Made Active in Reports: 02/22/2012
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Annually

SPILLS: Hazardous Material and Oil Spill System Database
The database contains surface, groundwater and hazardous material spills.

Date of Government Version: 02/04/2012
Date Data Arrived at EDR: 02/08/2012
Date Made Active in Reports: 03/07/2012
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 207-287-2651
Last EDR Contact: 02/08/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/10/2011
Date Data Arrived at EDR: 01/05/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/04/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/07/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/12/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 01/25/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/02/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011
Date Data Arrived at EDR: 12/14/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/14/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/28/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/07/2012
Next Scheduled EDR Contact: 06/18/2012
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/28/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/28/2012
Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/30/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/26/2012
Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/12/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012
Date Data Arrived at EDR: 01/12/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/10/2012
Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/13/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Biennially

UIC: Underground Injection Control

An injection well is any bored, drilled or driven shaft, or dug hole whose depth is greater than its largest surface dimension; an improved sinkhole; or a subsurface distribution system used to discharge fluids underground. These wells range from deep, highly technical, and more frequently monitored wells to shallow on-site drainage systems, such as septic systems, cesspools, and storm water drainage wells.

Date of Government Version: 08/22/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 10/06/2011
Number of Days to Update: 44

Source: Department of Environmental Protection
Telephone: 207-791-8110
Last EDR Contact: 04/02/2012
Next Scheduled EDR Contact: 06/04/2012
Data Release Frequency: Varies

NPDES: Wastewater Facilities Listing

A listing of wastewater facility locations.

Date of Government Version: 01/03/2012
Date Data Arrived at EDR: 01/03/2012
Date Made Active in Reports: 01/23/2012
Number of Days to Update: 20

Source: Department of Environmental Protection
Telephone: 207-287-3901
Last EDR Contact: 04/03/2012
Next Scheduled EDR Contact: 07/16/2012
Data Release Frequency: Quarterly

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaning facilities that use perchloroethylene.

Date of Government Version: 11/29/2011
Date Data Arrived at EDR: 11/29/2011
Date Made Active in Reports: 12/21/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: 207-287-7030
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 05/28/2012
Data Release Frequency: Varies

AIRS: Emissions Inventory Data

Point Source Criteria Pollutant Emissions Inventory data. Criteria air pollutant emissions, expressed in tons, by facility and pollutant.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 02/28/2012
Date Made Active in Reports: 03/29/2012
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 207-287-7036
Last EDR Contact: 03/21/2012
Next Scheduled EDR Contact: 07/02/2012
Data Release Frequency: Annually

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 09/20/2011
Date Made Active in Reports: 10/05/2011
Number of Days to Update: 15

Source: Maine Emergency Management Agency
Telephone: 207-624-4441
Last EDR Contact: 03/19/2012
Next Scheduled EDR Contact: 07/02/2012
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 04/23/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/04/2012
Next Scheduled EDR Contact: 08/13/2012
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/16/2012
Next Scheduled EDR Contact: 06/25/2012
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/16/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/20/2012
Date Data Arrived at EDR: 02/20/2012
Date Made Active in Reports: 03/15/2012
Number of Days to Update: 24

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/20/2012
Next Scheduled EDR Contact: 06/04/2012
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/17/2012
Next Scheduled EDR Contact: 07/30/2012
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/10/2012
Date Data Arrived at EDR: 02/09/2012
Date Made Active in Reports: 03/09/2012
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2012
Next Scheduled EDR Contact: 05/21/2012
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/26/2012
Date Made Active in Reports: 03/06/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/23/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/24/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/27/2012
Next Scheduled EDR Contact: 06/11/2012
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/22/2012
Date Data Arrived at EDR: 02/28/2012
Date Made Active in Reports: 04/05/2012
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/23/2012
Next Scheduled EDR Contact: 08/06/2012
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing
Source: Department of Human Services
Telephone: 207-287-5060

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Geographic Information Systems
Telephone: 207-287-6144

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LITTLE FALLS HYDRO
DEPOT STREET
WINDHAM, ME 04062

TARGET PROPERTY COORDINATES

Latitude (North):	43.7341 - 43˚ 44' 2.76''
Longitude (West):	70.4238 - 70˚ 25' 25.68''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	385335.7
UTM Y (Meters):	4843109.5
Elevation:	97 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43070-F4 GORHAM, ME
Most Recent Revision:	1975

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

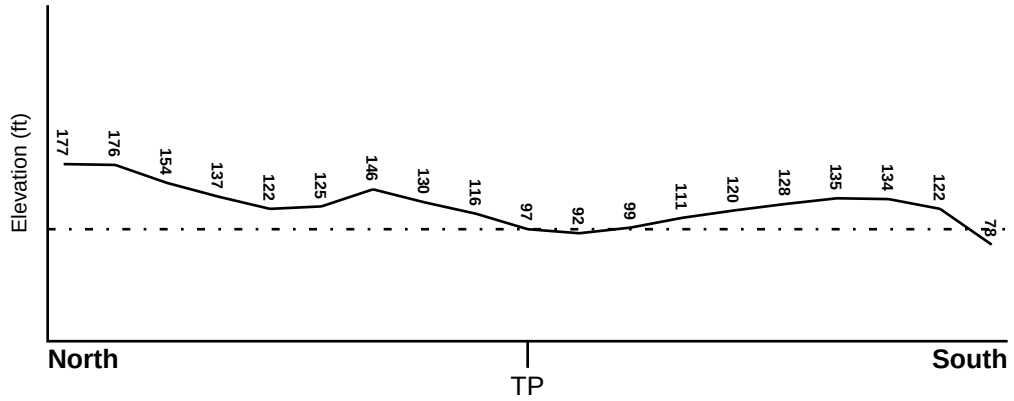
TOPOGRAPHIC INFORMATION

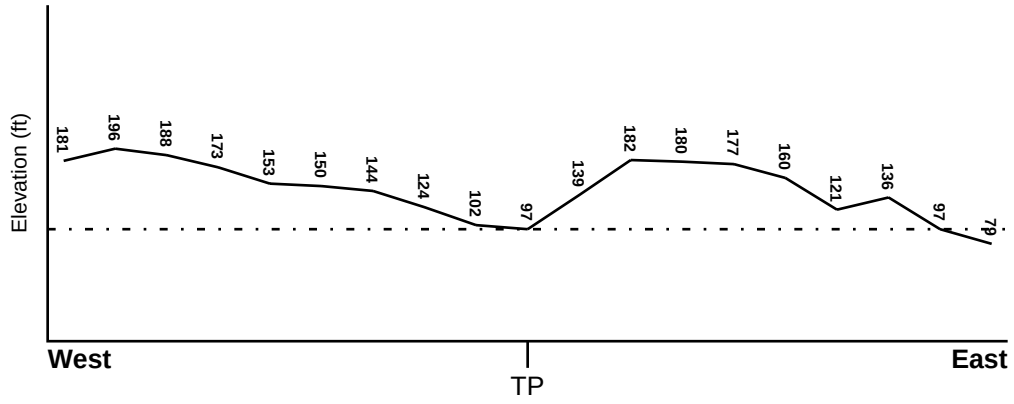
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 97 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

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HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
CUMBERLAND, ME	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	2301890025B - FEMA Q3 Flood data
Additional Panels in search area:	2301890030B - FEMA Q3 Flood data 2300470020B - FEMA Q3 Flood data 2301890010B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GORHAM	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

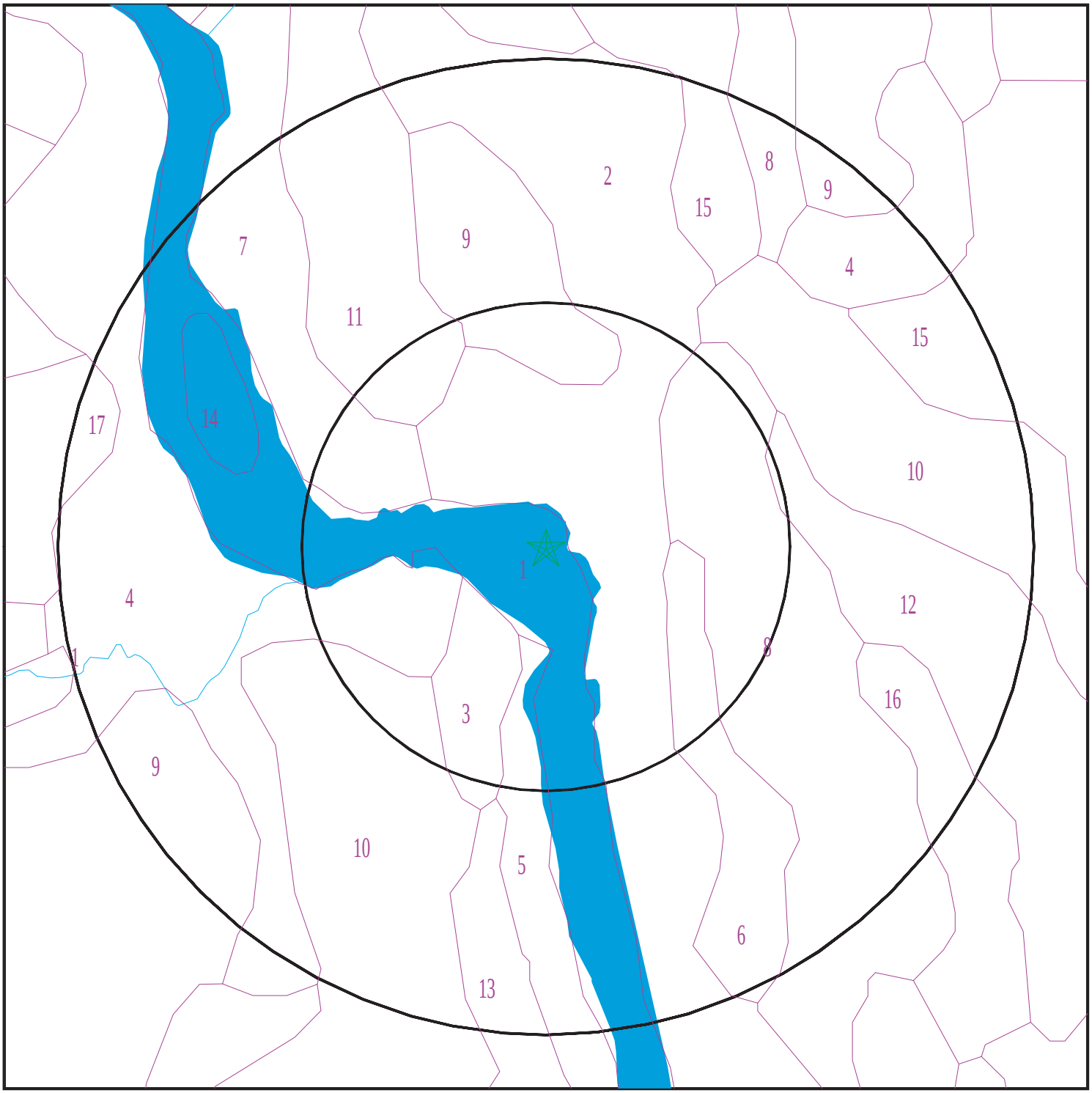
Era:	Paleozoic
System:	Devonian and Silurian
Series:	Devonian and Silurian
Code:	DSe *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 03316917.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Little Falls Hydro ADDRESS: Depot Street Windham ME 04062 LAT/LONG: 43.7341 / 70.4238	CLIENT: TRC Environmental Consultants CONTACT: Allison Drouin INQUIRY #: 03316917.2r DATE: May 04, 2012 3:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER BODIES GREATER

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: CUT AND FILL LAND

Soil Surface Texture: very gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 0.42	Max: 7.8 Min: 4.5

Soil Map ID: 3

Soil Component Name: SUFFIELD

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
2	5 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	22 inches	33 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
4	33 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Map ID: 4

Soil Component Name: BUXTON

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
3	16 inches	38 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
4	38 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Map ID: 5

Soil Component Name: SWANTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 8.4 Min: 5.6
2	9 inches	31 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 8.4 Min: 5.6
3	31 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 8.4 Min: 5.6

Soil Map ID: 6

Soil Component Name: HOLLIS

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 38 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:
2	5 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:
3	18 inches	22 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:

Soil Map ID: 7

Soil Component Name: PODUNK

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
2	7 inches	25 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
3	25 inches	59 inches	stratified very gravelly coarse sand to loamy fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5

Soil Map ID: 8

Soil Component Name: HARTLAND

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 5.1
2	7 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 5.1
3	18 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 5.1

Soil Map ID: 9

Soil Component Name: SCANTIC

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
2	7 inches	27 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
3	27 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Map ID: 10

Soil Component Name: ELMWOOD

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 6.1
2	7 inches	25 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 6.1
3	25 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 6.1

Soil Map ID: 11

Soil Component Name: HOLLIS

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 38 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:
2	5 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:
3	18 inches	22 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.14 Min: 0.07	Max: Min:

Soil Map ID: 12

Soil Component Name: PAXTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4.23 Min: 0.42	Max: 6 Min: 3.6
2	7 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4.23 Min: 0.42	Max: 6 Min: 3.6
3	20 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4.23 Min: 0.42	Max: 6 Min: 3.6

Soil Map ID: 13

Soil Component Name: SUFFIELD

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
2	5 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
3	22 inches	33 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6
4	33 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.41 Min: 0	Max: 7.3 Min: 5.6

Soil Map ID: 14

Soil Component Name: LIMERICK

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6.5 Min: 3.6
2	7 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6.5 Min: 3.6

Soil Map ID: 15

Soil Component Name: BELGRADE

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	9 inches	18 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 4.5
3	18 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 4.5
4	27 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6.5 Min: 4.5

Soil Map ID: 16

Soil Component Name: MELROSE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 5.1
2	7 inches	22 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 5.1
3	22 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0	Max: 7.3 Min: 5.1

Soil Map ID: 17

Soil Component Name: WINDSOR

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141.14	Max: 6.5 Min: 4.5
2	5 inches	25 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141.14	Max: 6.5 Min: 4.5
3	25 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141.14	Max: 6.5 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2062427	1/4 - 1/2 Mile South
3	USGS2062436	1/4 - 1/2 Mile SE
4	USGS2062425	1/4 - 1/2 Mile South
5	USGS2062460	1/2 - 1 Mile NE
6	USGS2062470	1/2 - 1 Mile North
7	USGS2062463	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

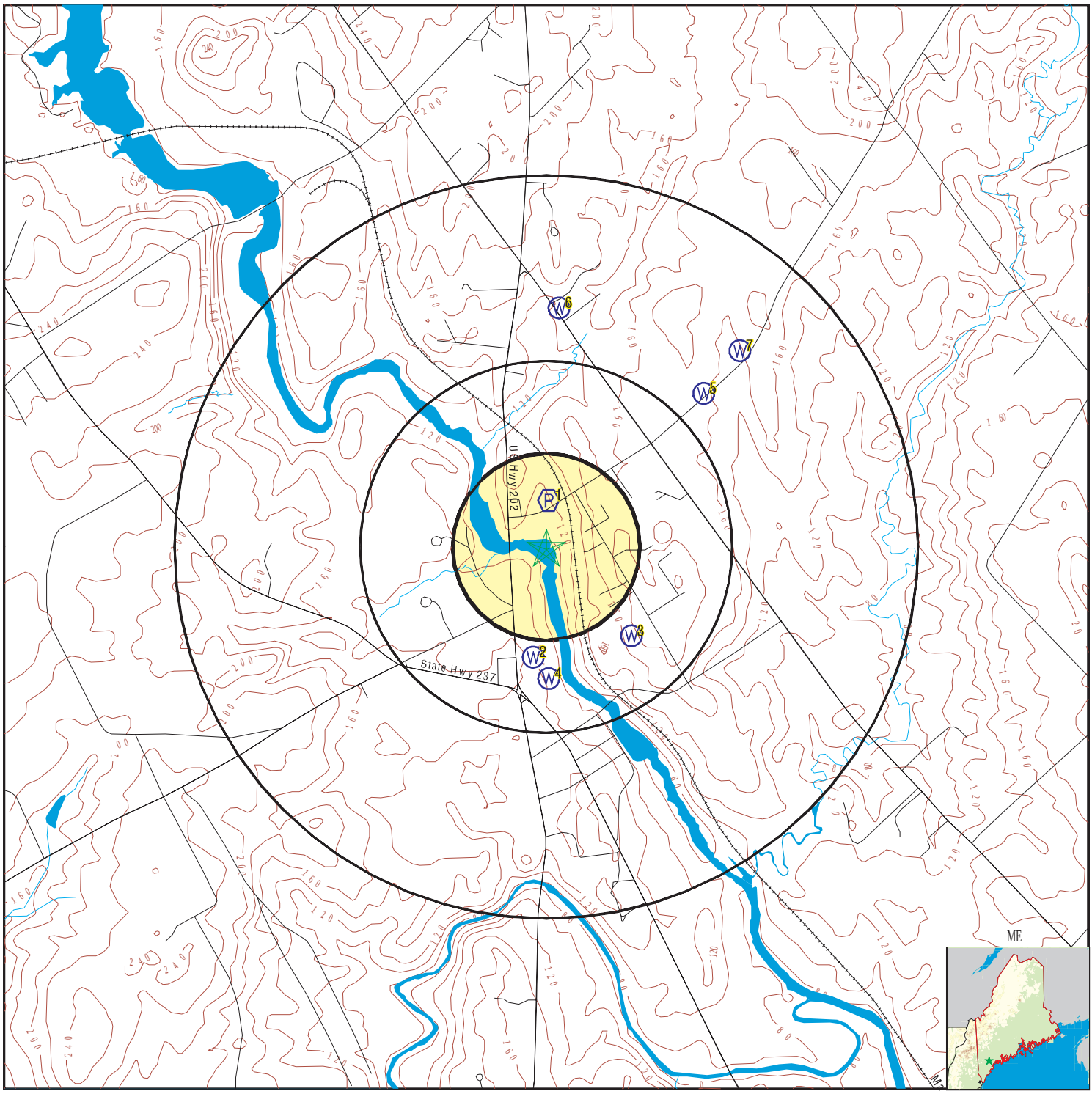
MAP ID	WELL ID	LOCATION FROM TP
1	ME0004228	1/8 - 1/4 Mile North

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 03316917.2r



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location

SITE NAME: Little Falls Hydro ADDRESS: Depot Street Windham ME 04062 LAT/LONG: 43.7341 / 70.4238	CLIENT: TRC Environmental Consultants CONTACT: Allison Drouin INQUIRY #: 03316917.2r DATE: May 04, 2012 3:13 pm

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Map ID Direction Distance Elevation		Database	EDR ID Number
1 **North** **1/8 - 1/4 Mile** **Higher**		**FRDS PWS**	**ME0004228**

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	5311		
Facility name:	HISTORICAL DATA		
Facility type:	Sampling_station	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	5311		
Facility name:	HISTORICAL DATA		
Facility type:	Sampling_station	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	7536		
Facility name:	DISTRIBUTION SYSTEM		
Facility type:	Distribution_system_zone	Treatment process:	ion exchange
Treatment objective:	inorganics removal		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	7536		
Facility name:	DISTRIBUTION SYSTEM		
Facility type:	Distribution_system_zone	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	7536		
Facility name:	DISTRIBUTION SYSTEM		
Facility type:	Distribution_system_zone	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	7536		
Facility name:	DISTRIBUTION SYSTEM		
Facility type:	Distribution_system_zone	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10938		
Facility name:	TREATMENT FACILITY 1		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10953		
Facility name:	TREATMENT FACILITY 2		
Facility type:	Treatment_plant	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10953		
Facility name:	TREATMENT FACILITY 2		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10938		
Facility name:	TREATMENT FACILITY 1		
Facility type:	Treatment_plant	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10938		
Facility name:	TREATMENT FACILITY 1		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10938		
Facility name:	TREATMENT FACILITY 1		
Facility type:	Treatment_plant	Treatment process:	ion exchange
Treatment objective:	inorganics removal		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10953		
Facility name:	TREATMENT FACILITY 2		
Facility type:	Treatment_plant	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	10953		
Facility name:	TREATMENT FACILITY 2		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	2410		
Facility name:	DUG WELL 15’		
Facility type:	Well	Treatment process:	ion exchange
Treatment objective:	inorganics removal		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	2410		
Facility name:	DUG WELL 15’		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	2410		
Facility name:	DUG WELL 15’		
Facility type:	Well	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	2410		
Facility name:	DUG WELL 15’		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	5311		
Facility name:	HISTORICAL DATA		
Facility type:	Sampling_station	Treatment process:	ion exchange
Treatment objective:	inorganics removal		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

Pwsid:	ME0004228	Epa region:	01
State:	ME	County:	Cumberland
Pws name:	THE NORTHEASTERN MOTEL		
Population Served:	46	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	TNCWS		
Status:	Active	Owner type:	Private
Facility id:	5311		
Facility name:	HISTORICAL DATA		
Facility type:	Sampling_station	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GIONIS, PETER		
Original name:	GIONIS, PETER		
Contact phone:	207-892-4834	Contact address1:	322 ROOSEVELT TRL
Contact address2:	Not Reported		
Contact city:	WINDHAM		
Contact zip:	04062		

PWS ID:	ME0004228		
Date Initiated:	7701	Date Deactivated:	Not Reported
PWS Name:	SUBURBAN PINES MOTEL-WINDHAM V.P. ASSOCIATES PO BOX 41 WESTBROOK, ME 04092		
Addressee / Facility:	Not Reported		
Facility Latitude:	43 44 09	Facility Longitude:	070 25 27
City Served:	STRONG		
Treatment Class:	Untreated	Population:	00000048

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	9410408	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	01/01/93	Vio. end Date:	12/31/93	Vio. Period:	012 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	031594				

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31501	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2001 0:00:00		
Complperen:	6/30/2001 0:00:00	Enfdate:	9/21/2001 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31501	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2001 0:00:00		
Complperen:	6/30/2001 0:00:00	Enfdate:	8/15/2003 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31501	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2001 0:00:00		
Complperen:	6/30/2001 0:00:00	Enfdate:	9/21/2001 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31602	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2000 0:00:00		
Complperen:	12/31/2000 0:00:00	Enfdate:	11/27/2001 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31602	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2000 0:00:00		
Complperen:	12/31/2000 0:00:00	Enfdate:	11/6/2001 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31602	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2000 0:00:00		
Complperen:	12/31/2000 0:00:00	Enfdate:	11/6/2001 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31702	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2001 0:00:00		
Complperen:	12/31/2001 0:00:00	Enfdate:	3/22/2002 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31702	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2001 0:00:00		
Complperen:	12/31/2001 0:00:00	Enfdate:	3/7/2002 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31702	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2001 0:00:00		
Complperen:	12/31/2001 0:00:00	Enfdate:	3/7/2002 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	9/25/2002 0:00:00
Enf action:	State Boil Water Order		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	12/13/2002 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	9/25/2002 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	9/25/2002 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	9/25/2002 0:00:00
Enf action:	State Tech Assistance Visit		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	31902	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	9/1/2002 0:00:00		
Complperen:	9/30/2002 0:00:00	Enfdate:	9/25/2002 0:00:00
Enf action:	State Compliance Meeting Conducted		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32303	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2003 0:00:00		
Complperen:	2/28/2003 0:00:00	Enfdate:	5/19/2003 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32303	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2003 0:00:00		
Complperen:	2/28/2003 0:00:00	Enfdate:	5/5/2003 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32303	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2003 0:00:00		
Complperen:	2/28/2003 0:00:00	Enfdate:	5/5/2003 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32303	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2003 0:00:00		
Complperen:	2/28/2003 0:00:00	Enfdate:	8/15/2003 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32403	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	3/1/2003 0:00:00		
Complperen:	3/31/2003 0:00:00	Enfdate:	8/15/2003 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32403	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	3/1/2003 0:00:00		
Complperen:	3/31/2003 0:00:00	Enfdate:	5/21/2003 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32403	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	3/1/2003 0:00:00		
Complperen:	3/31/2003 0:00:00	Enfdate:	5/21/2003 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32403	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	3/1/2003 0:00:00		
Complperen:	3/31/2003 0:00:00	Enfdate:	8/7/2003 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32503	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	7/25/2003 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32503	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	8/7/2003 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32503	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	8/15/2003 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32503	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	7/25/2003 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32804	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Minor (TCR)		
Complperbe:	9/1/2003 0:00:00		
Complperen:	9/30/2003 0:00:00	Enfdate:	12/8/2003 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32804	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Minor (TCR)		
Complperbe:	9/1/2003 0:00:00		
Complperen:	9/30/2003 0:00:00	Enfdate:	12/8/2003 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	32804	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Minor (TCR)		
Complperbe:	9/1/2003 0:00:00		
Complperen:	9/30/2003 0:00:00	Enfdate:	7/7/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33204	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2004 0:00:00		
Complperen:	1/31/2004 0:00:00	Enfdate:	4/20/2004 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33204	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2004 0:00:00		
Complperen:	1/31/2004 0:00:00	Enfdate:	4/20/2004 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33204	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2004 0:00:00		
Complperen:	1/31/2004 0:00:00	Enfdate:	7/7/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33605	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/4/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33605	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/4/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33605	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	7/7/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33705	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/15/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33705	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	8/5/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33705	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/15/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33805	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/15/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33805	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	2/15/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33805	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2004 0:00:00	Enfdate:	8/5/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33905	Contaminant:	NITRATE
Viol. Type:	1		
Complperbe:	2/1/2005 0:00:00		
Complperen:	2/28/2005 0:00:00	Enfdate:	3/10/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	11.9		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33905	Contaminant:	NITRATE
Viol. Type:	1		
Complperbe:	2/1/2005 0:00:00		
Complperen:	2/28/2005 0:00:00	Enfdate:	3/10/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	11.9		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33905	Contaminant:	NITRATE
Viol. Type:	1		
Complperbe:	2/1/2005 0:00:00		
Complperen:	2/28/2005 0:00:00	Enfdate:	3/10/2005 0:00:00
Enf action:	State Compliance Meeting Conducted		
Violmeasur:	11.9		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33905	Contaminant:	NITRATE
Viol. Type:	1		
Complperbe:	2/1/2005 0:00:00		
Complperen:	2/28/2005 0:00:00	Enfdate:	3/10/2005 0:00:00
Enf action:	State Tech Assistance Visit		
Violmeasur:	11.9		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	33905	Contaminant:	NITRATE
Viol. Type:	1		
Complperbe:	2/1/2005 0:00:00		
Complperen:	2/28/2005 0:00:00	Enfdate:	6/21/2005 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	11.9		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34206	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34206	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34206	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34206	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34306	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34306	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34306	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34306	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34406	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34406	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34406	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	12/28/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34406	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	12/28/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34506	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	12/28/2005 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34506	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34506	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34506	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	12/28/2005 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34606	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34606	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34606	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34606	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34706	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34706	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/27/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34706	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34706	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	10/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	1/5/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34806	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	9/22/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34806	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	10/13/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34806	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	9/22/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34906	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	10/15/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34906	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	9/29/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	34906	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	4/1/2006 0:00:00		
Complperen:	6/30/2006 0:00:00	Enfdate:	9/29/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	10/15/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Boil Water Order		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Tech Assistance Visit		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35107	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	11/7/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35207	Contaminant:	Not Reported
Viol. Type:	7		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Boil Water Order		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35207	Contaminant:	Not Reported
Viol. Type:	7		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35207	Contaminant:	Not Reported
Viol. Type:	7		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Tech Assistance Visit		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35207	Contaminant:	Not Reported
Viol. Type:	7		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	11/6/2006 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35207	Contaminant:	Not Reported
Viol. Type:	7		
Complperbe:	10/1/2006 0:00:00		
Complperen:	10/31/2006 0:00:00	Enfdate:	11/7/2006 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35507	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2007 0:00:00		
Complperen:	1/31/2007 0:00:00	Enfdate:	10/15/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35507	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2007 0:00:00		
Complperen:	1/31/2007 0:00:00	Enfdate:	3/12/2007 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35507	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2007 0:00:00		
Complperen:	1/31/2007 0:00:00	Enfdate:	3/12/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35607	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2007 0:00:00		
Complperen:	2/28/2007 0:00:00	Enfdate:	10/15/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35607	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2007 0:00:00		
Complperen:	2/28/2007 0:00:00	Enfdate:	3/19/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	35607	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2007 0:00:00		
Complperen:	2/28/2007 0:00:00	Enfdate:	3/19/2007 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36008	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2008 0:00:00		
Complperen:	3/31/2008 0:00:00	Enfdate:	2/2/2009 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36008	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2008 0:00:00		
Complperen:	3/31/2008 0:00:00	Enfdate:	5/20/2008 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36008	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2008 0:00:00		
Complperen:	3/31/2008 0:00:00	Enfdate:	5/20/2008 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36108	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	8/28/2008 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36108	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	9/11/2008 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36108	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	8/28/2008 0:00:00
Enf action:	State Public Notif Requested		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	ME0004228
Pwsname:	THE NORTHEASTERN MOTEL		
Retpopsrvd:	46	Pwstypecod:	NC
Vioid:	36108	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	4/1/2008 0:00:00		
Complperen:	6/30/2008 0:00:00	Enfdate:	9/15/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

CONTACT INFORMATION:

Name:	THE NORTHEASTERN MOTEL	Population:	46
Contact:	GIONIS, PETER	Phone:	Not Reported
Address:	322 ROOSEVELT TRL		
Address 2:	WINDHAM		
	ME, 04 207-8		

2
South **FED USGS** **USGS2062427**
1/4 - 1/2 Mile
Higher

Agency cd:	USGS	Site no:	434347070253001
Site name:	CW 267		
Latitude:	434347	EDR Site id:	USGS2062427
Longitude:	0702530	Dec lat:	43.72980139
Dec lon:	-70.42449639	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	75.1		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	45	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
3 **SE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS2062436**

Agency cd:	USGS	Site no:	434350070251101
Site name:	CW 330		
Latitude:	434350	EDR Site id:	USGS2062436
Longitude:	0702511	Dec lat:	43.7306347
Dec lon:	-70.4192186	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	170		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1960
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	145	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

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4 **South** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS2062425**

Agency cd:	USGS	Site no:	434344070252701
Site name:	CW 268		
Latitude:	434344	EDR Site id:	USGS2062425
Longitude:	0702527	Dec lat:	43.72896806
Dec lon:	-70.423663	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

Altitude:	74.0		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	64	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
NE
1/2 - 1 Mile
Higher

FED USGS **USGS2062460**

Agency cd:	USGS	Site no:	434424070245701
Site name:	CW 545		
Latitude:	434424	EDR Site id:	USGS2062460
Longitude:	0702457	Dec lat:	43.74007889
Dec lon:	-70.4153297	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	160		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19680000
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	97	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

6
North
1/2 - 1 Mile
Higher

FED USGS **USGS2062470**

Agency cd:	USGS	Site no:	434436070252501
Site name:	CW 494		
Latitude:	434436	EDR Site id:	USGS2062470
Longitude:	0702525	Dec lat:	43.7434122
Dec lon:	-70.4231075	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	140		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1969
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	185.6	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

7
NE
1/2 - 1 Mile
Higher

FED USGS **USGS2062463**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	434430070245001
Site name:	CW 485		
Latitude:	434430	EDR Site id:	USGS2062463
Longitude:	0702450	Dec lat:	43.74174556
Dec lon:	-70.41338528	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	23
State:	23	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	160		
Altitude method:	Unknown		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1965
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	145	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: ME Radon

Radon Test Results

Zip	City	Floor	Results
04062	Windham	B	6.3
04062	Windham	B	38.1
04062	Windham	B	28.5
04062	Windham	B	38.1
04062	Windham	B	28.5
04062		B	0.7
04062		B	0.4
04062		F	5.9
04062		B	8.4
04062		B	8.3
04062		B	59.3
04062		B	61.5
04062		B	61.5
04062		B	59.3
04062		B	8.0
04062		B	8.7
04062		B	16.0
04062		B	16.0
04062		B	7.0
04062		B	8.3
04062		B	8.4
04062		F	5.9
04062		F	25.9
04062	Windham	B	2.2
04062	Windham	B	6.3
04062	Windham	B	13.1
04062		B	19.8
04062		B	1.6
04062		B	6.3
04062		B	0.9
04062	WINDHAM	B	41.5
04062		B	2.3
04062		B	22.0
04062		B	25.9
04062		B	26.8
04062		B	7.4
04062		F	3.6
04062		B	11.5
04062		F	11.2
04062		B	31.2
04062		B	30.8
04062		B	6.8
04062		B	10.1
04062		B	1.0
04062		B	3.5
04062		B	3.6
04062			

AREA RADON INFORMATION

		B	10.1
04062		B	5.5
04062		F	2.1
04062		B	5.3
04062		F	11.2
04062		B	30.8
04062		B	31.2
04062		F	4.3
04062		B	7.0
04062		B	6.9
04062		B	9.6
04062		F	4.5
04062		B	13.1
04062		B	13.4
04062		B	47.6
04062		B	43.3
04062		F	18.5
04062		B	39.3
04062		F	18.2
04062		B	39.1
04062		B	12.4
04062		B	7.7
04062		B	0.6
04062		B	3.9
04062		F	1.3
04062		B	7.8
04062		B	0.1
04062		B	5.0
04062		B	1.2
04062		B	0.6
04062		B	0.3
04062		B	0.5
04062		F	2.1
04062		B	5.3
04062		B	5.5
04062		B	0.9
04062		B	0.3
04062		B	1.3
04062		B	1.3
04062		B	25.4
04062		B	25.0
04062	WINDHAM	B	27.4
04062	WINDHAM	B	250.1
04062	WINDHAM	B	13.1
04062	WINDHAM	F	3.3
04062		F	7.7
04062		F	7.3
04062		F	31.0
04062		B	80.0
04062		B	0.9
04062		B	0.8
04062		B	2.9
04062		B	3.3
04062		B	16.6
04062		B	14.7
04062		B	16.2
04062			

AREA RADON INFORMATION

		B	13.4
04062		B	13.1
04062		F	4.5
04062		F	10.4
04062		B	0.7
04062		B	4.8
04062		B	0.6
04062		F	5.6
04062		B	14.6
04062		F	7.3
04062		B	26.8
04062		B	25.9
04062		B	6.8
04062		B	7.0
04062	Westbrook	B	14.4
04062	Westbrook	B	14.4
04062	10/4/02 0:00:00	1	13766
04062		F	2.5
04062	Windham	B	11.0
04062	Windam	B	11.2
04062	Windham	B	4.0
04062	Windham	B	11.0
04062	Windam	B	11.2
04062	Windham	B	4.0
04062	Windham	B	8.0
04062	Windham	B	5.0
04062	windham	B	4.2
04062	Windham	B	8.0
04062	Windham	B	5.0
04062	windham	B	4.2
04062	Windham	B	13.6
04062	Windham	B	13.6
04062	Windham	B	16.9
04062	Windham	B	94.3
04062	Windham	B	16.9
04062	Windham	B	94.3
04062	South Windham	B	6.7
04062	Windham	B	4.4
04062	South Windham	B	6.7
04062	Windham	B	4.4
04062	Windham	B	9.0
04062	Windham	B	2.0
04062	Windham	B	9.0
04062	Windham	B	2.0
04062		O	13.3
04062	Windham	B	3.9
04062	Windham	B	4.7
04062	Windham	B	3.9
04062	Windham	B	2.6
04062	North Windham	B	3.5
04062	Windham	B	2.6
04062	North Windham	B	3.5
04062		B	11.7
04062	Windham	B	29.2
04062	Windham	B	31.5
04062	Windham	B	4.7
04062			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	Windham	B	29.2
04062	Windham	B	31.5
04062	Windham	B	1.0
04062	Windham	B	17.5
04062	South Windham	B	4.7
04062	Windham	B	2.5
04062	Windham	B	1.2
04062	Windham	B	1.0
04062	Windham	B	17.5
04062	South Windham	B	4.7
04062	Windham	B	2.5
04062	Windham	B	1.2
04062	Windham	B	2.6
04062	Windham	B	2.6

Federal EPA Radon Zone for CUMBERLAND County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 04062

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	13.700 pCi/L	50%	25%	25%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Geographic Information Systems
Telephone: 207-287-6144

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Wells Database
Source: Department of Human Services, Drinking Water Program
Telephone: 207-287-6196
There are 3 types of public water systems in Maine: Transient Systems; Community Systems and Non-transient Non-community Systems

OTHER STATE DATABASE INFORMATION

RADON

Maine Radon Test Results
Source: Department of Human Services
Telephone: 207-287-5698
The state of Maine Radiation Control Program's - Radon/Indor Air Quality Section's position on radon map, is that they should be used neither to predict the presence of high nor low values in any given geographic or geologic area. The only conclusion that should be drawn from this data is that radon in omnipresent in the soil gasses in the state of Maine, and therefore all residences and buildings that come in contact with the ground should be tested for radon.

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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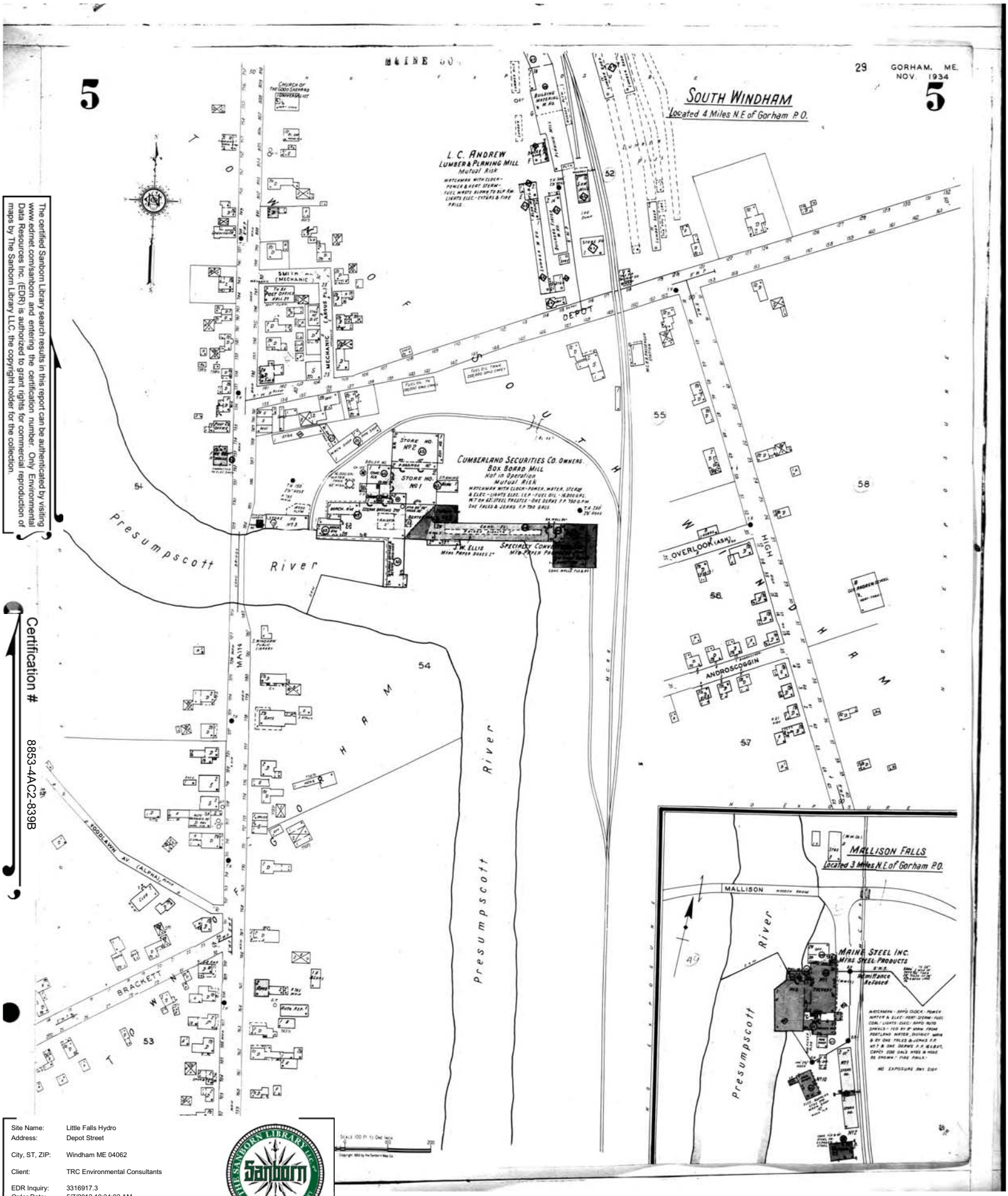
APPENDIX 6

Historical Research Documentation

Sanborn Maps
Historical Topographic Maps
Historical Aerials

1944 Certified Sanborn Map



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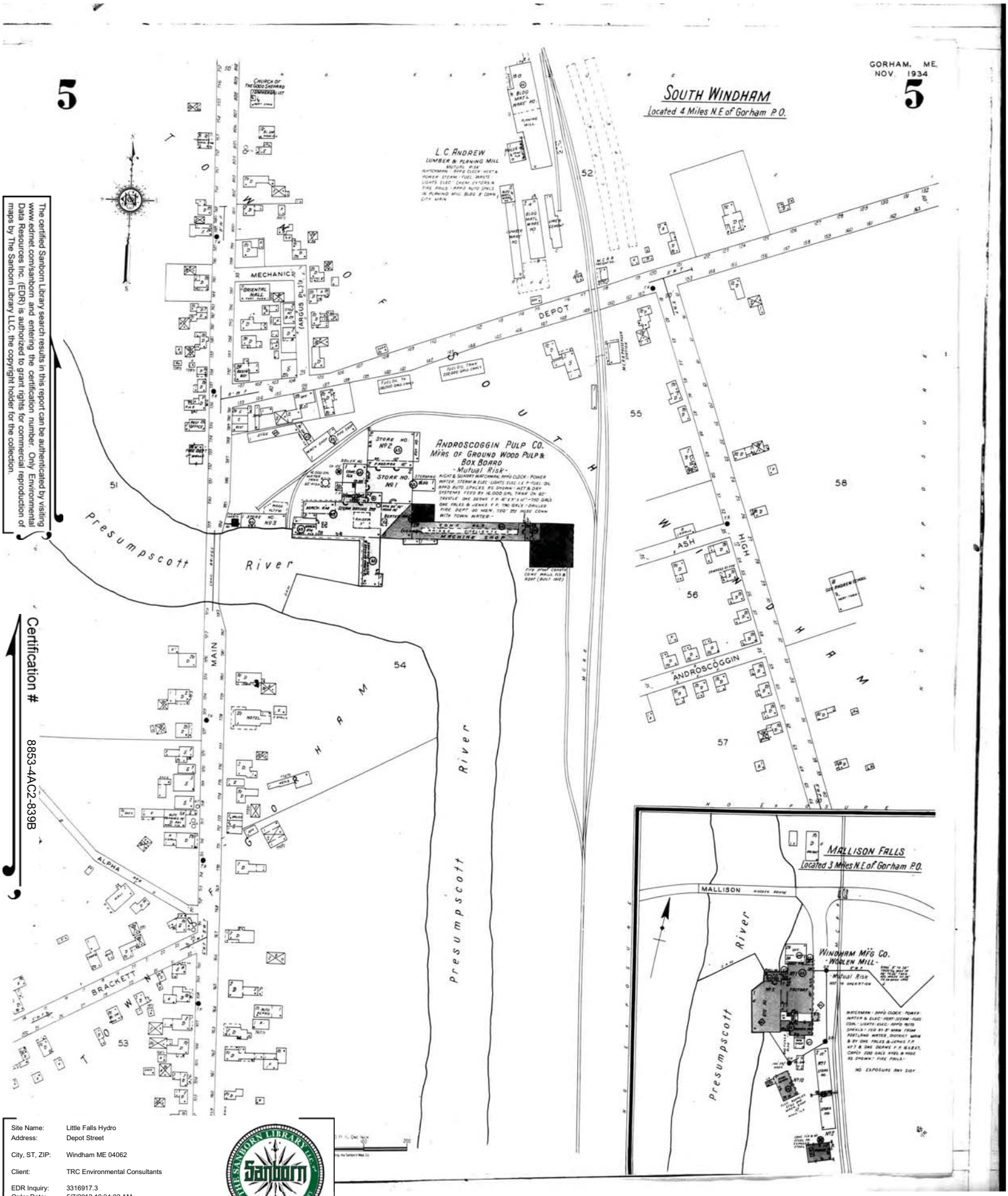
Certification # 8853-4AC2-839B

Site Name:	Little Falls Hydro
Address:	Depot Street
City, ST, ZIP:	Windham ME 04062
Client:	TRC Environmental Consultants
EDR Inquiry:	3316917.3
Order Date:	5/7/2012 10:34:02 AM
Certification #	8853-4AC2-839B
Copyright:	1944

1934 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 8853-4AC2-839B

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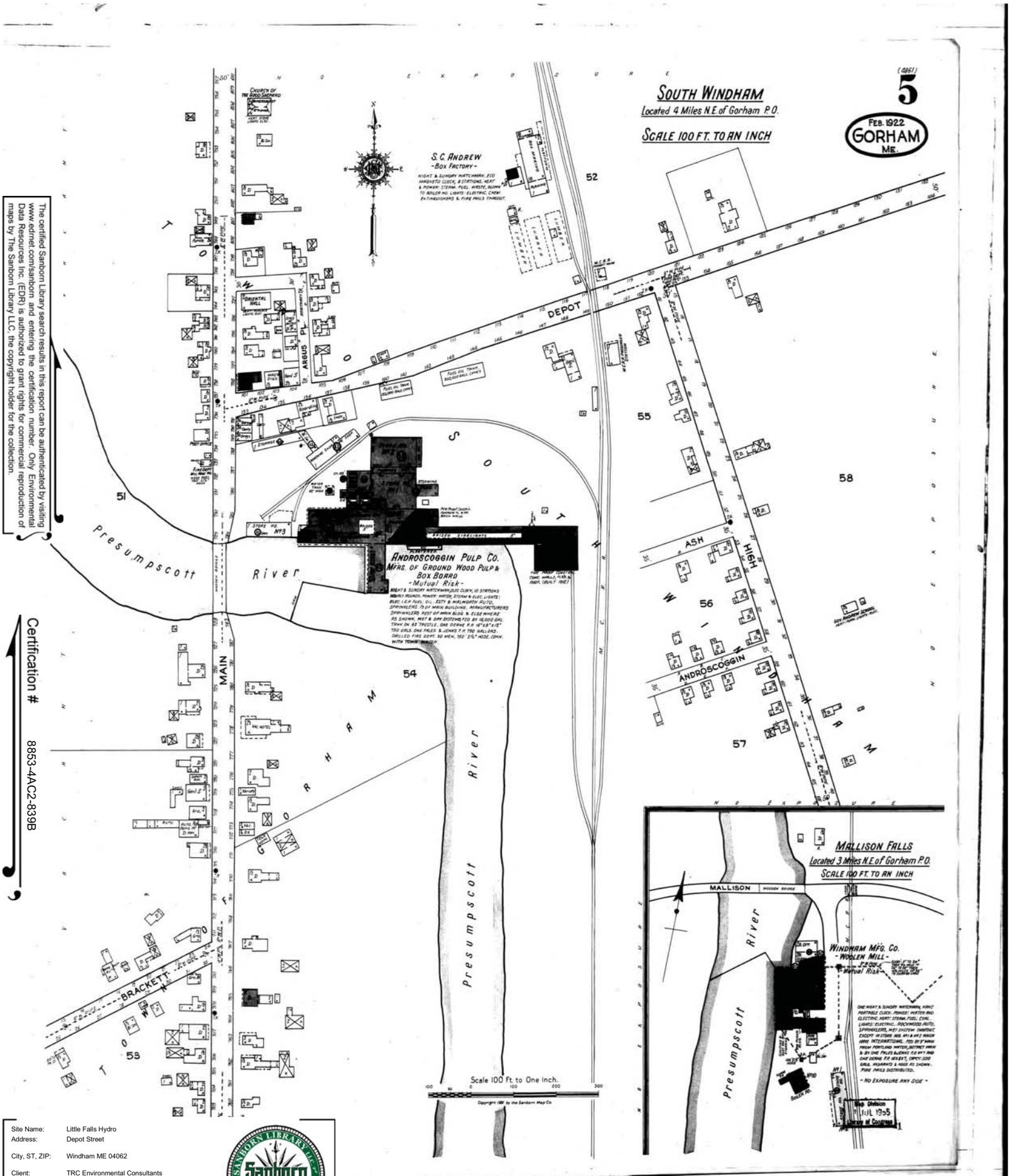
Address:	Depot Street
City, ST, ZIP:	Windham ME 04062
Client:	TRC Environmental Consultants
EDR Inquiry:	3316917.3
Order Date:	5/7/2012 10:34:02 AM
Certification #	8853-4AC2-839B
Copyright:	1934

1922 Certified Sanborn Map



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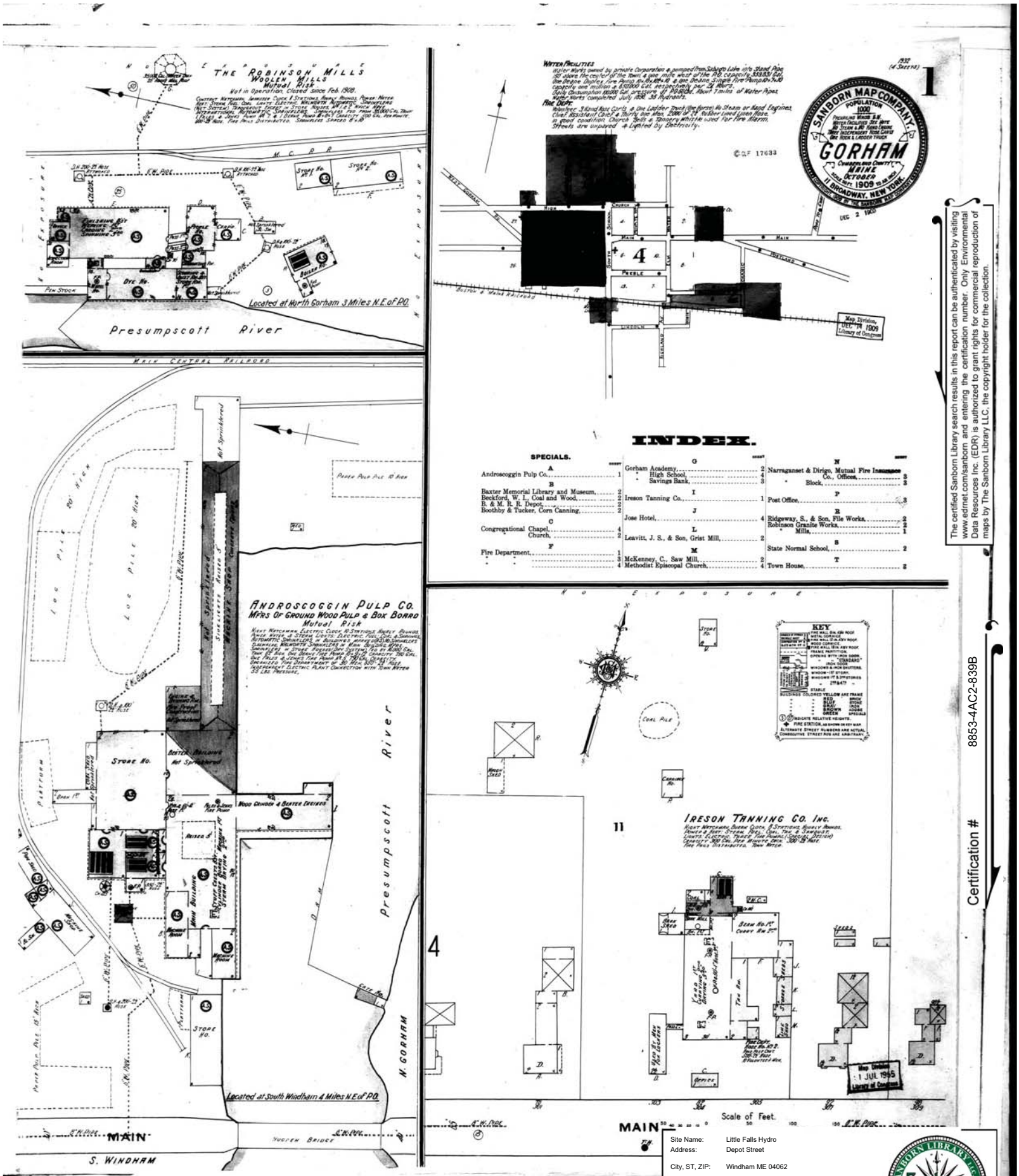
Certification # 8853-4AC2-839B

Site Name:	Little Falls Hydro
Address:	Depot Street
City, ST, ZIP:	Windham ME 04062
Client:	TRC Environmental Consultants
EDR Inquiry:	3316917.3
Order Date:	5/7/2012 10:34:02 AM
Certification #	8853-4AC2-839B
Copyright:	1922

1909 Certified Sanborn Map



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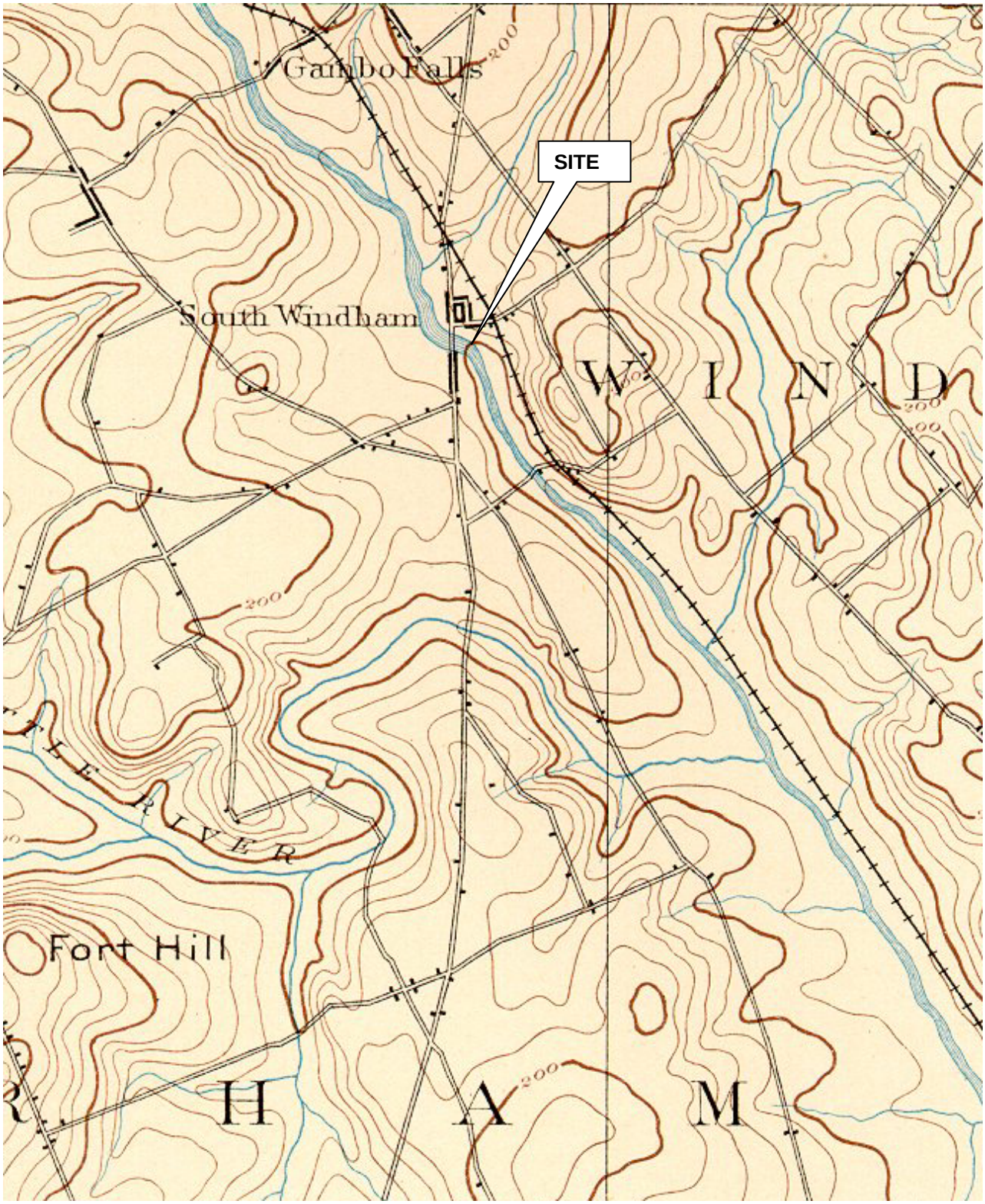
Certification # 8853-4AC2-839B

Site Name:	Little Falls Hydro
Address:	Depot Street
City, ST, ZIP:	Windham ME 04062
Client:	TRC Environmental Consultants
EDR Inquiry:	3316917.3
Order Date:	5/7/2012 10:34:02 AM
Certification #	8853-4AC2-839B
Copyright:	1909



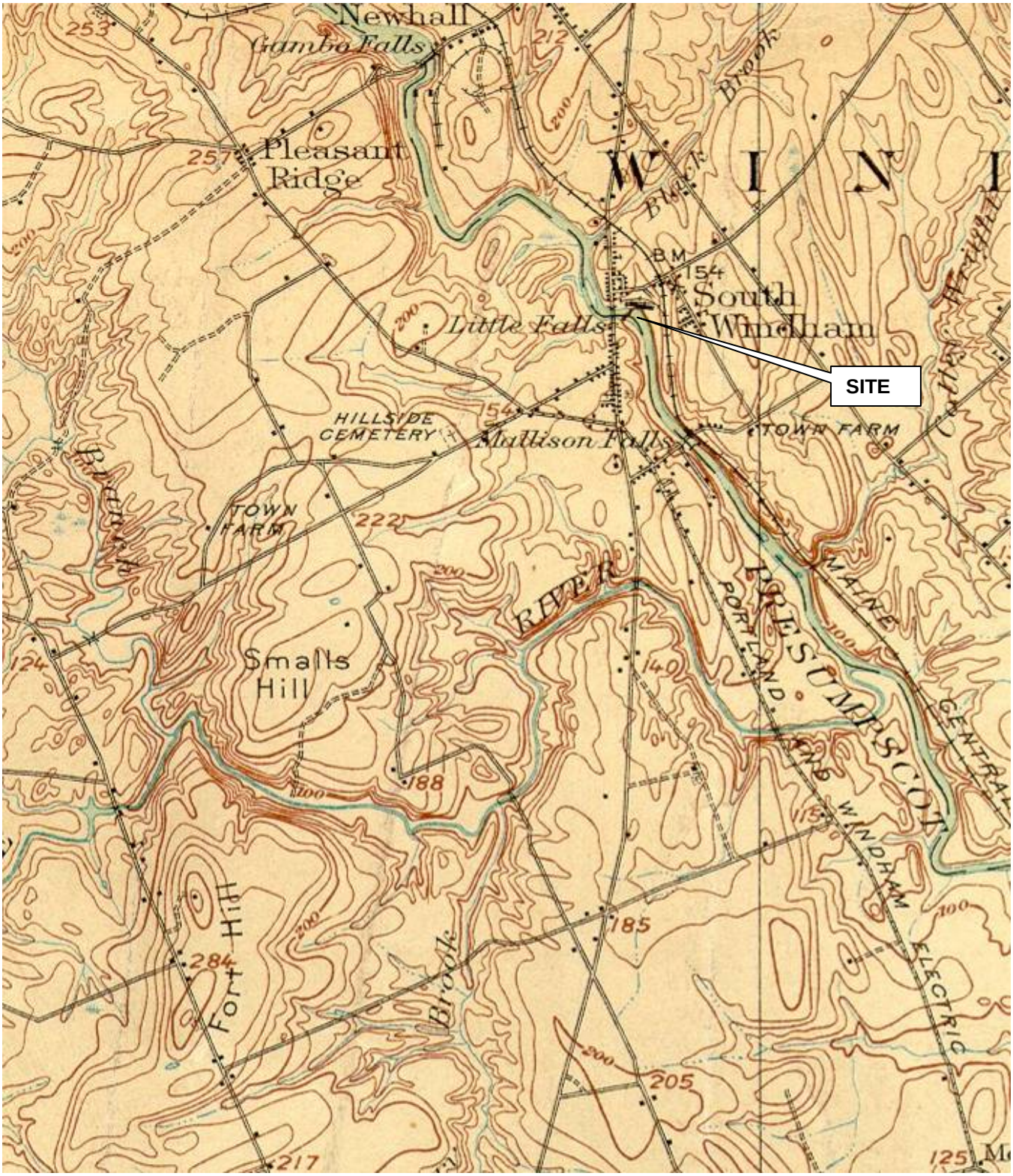
Source: University of New Hampshire Dimond Library
Photograph Date: 1891
Map No.: 1 of 3

N

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

HISTORICAL TOPOGRAPHIC MAP
Little Falls Dam & Transmission Line
One Main & Depot Street
Windham & Gorham, Maine

Project Number: 191981



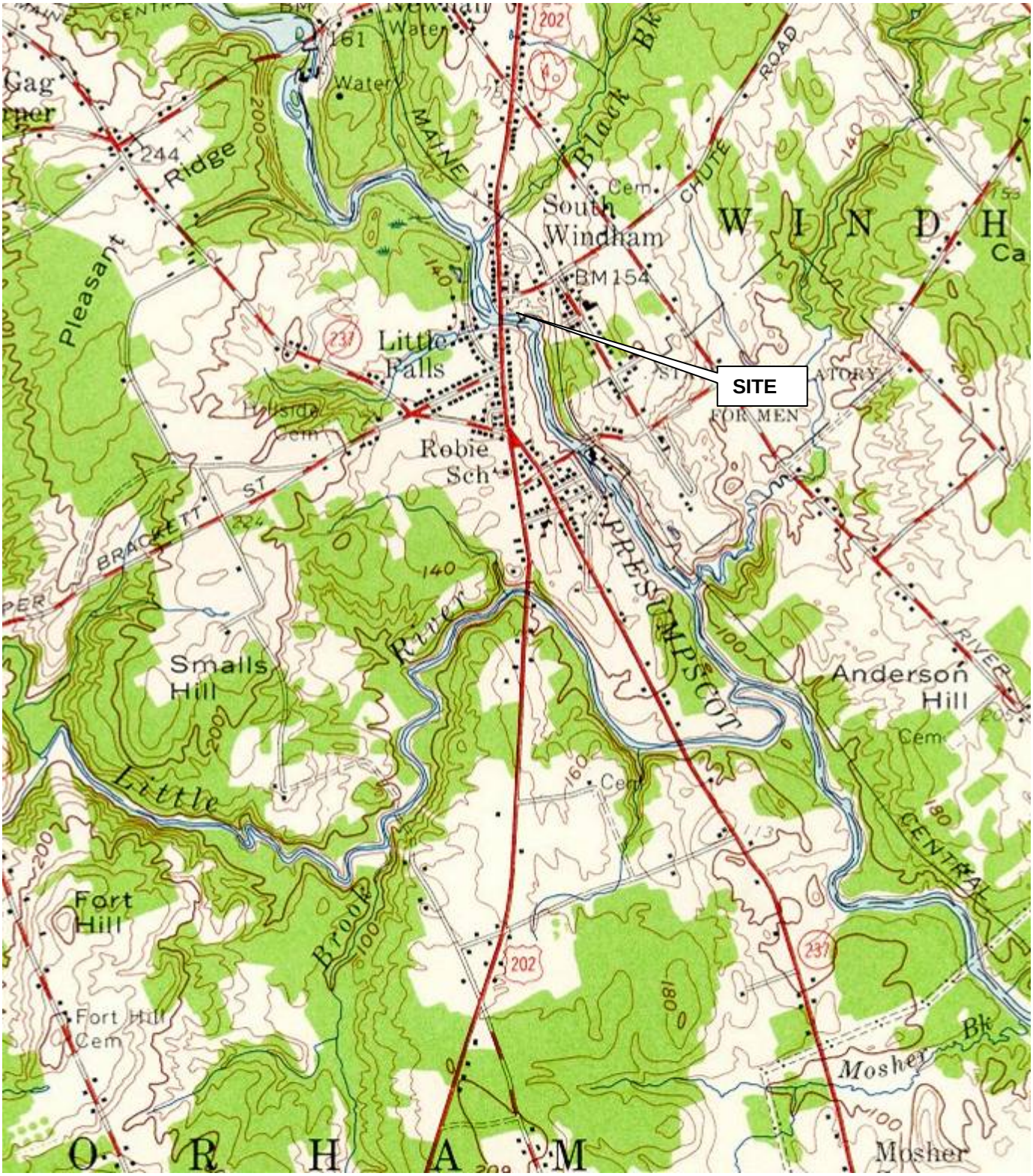
Source: University of New Hampshire Dimond Library
Photograph Date: 1916
Map No.: 2 of 3

N

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Phone: 978-970-5600

HISTORICAL TOPOGRAPHIC MAP
Little Falls Dam & Transmission Line
One Main & Depot Street
Windham & Gorham, Maine

Project Number: 191981



Source: University of New Hampshire Dimond Library
Photograph Date: 1957
Map No.: 3 of 3

N

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Phone: 978-970-5600

HISTORICAL TOPOGRAPHIC MAP
Little Falls Dam & Transmission Line
One Main & Depot Street
Windham & Gorham, Maine

Project Number: 191981

INQUIRY #: 3316917.4
YEAR: 1956
= 500'
N

INQUIRY #: 3316917.4
YEAR: 1970
= 500'
N

INQUIRY #: 3316917.4
YEAR: 1975
= 1000'
N

INQUIRY #: 3316917.4
YEAR: 1986
= 1000'
N

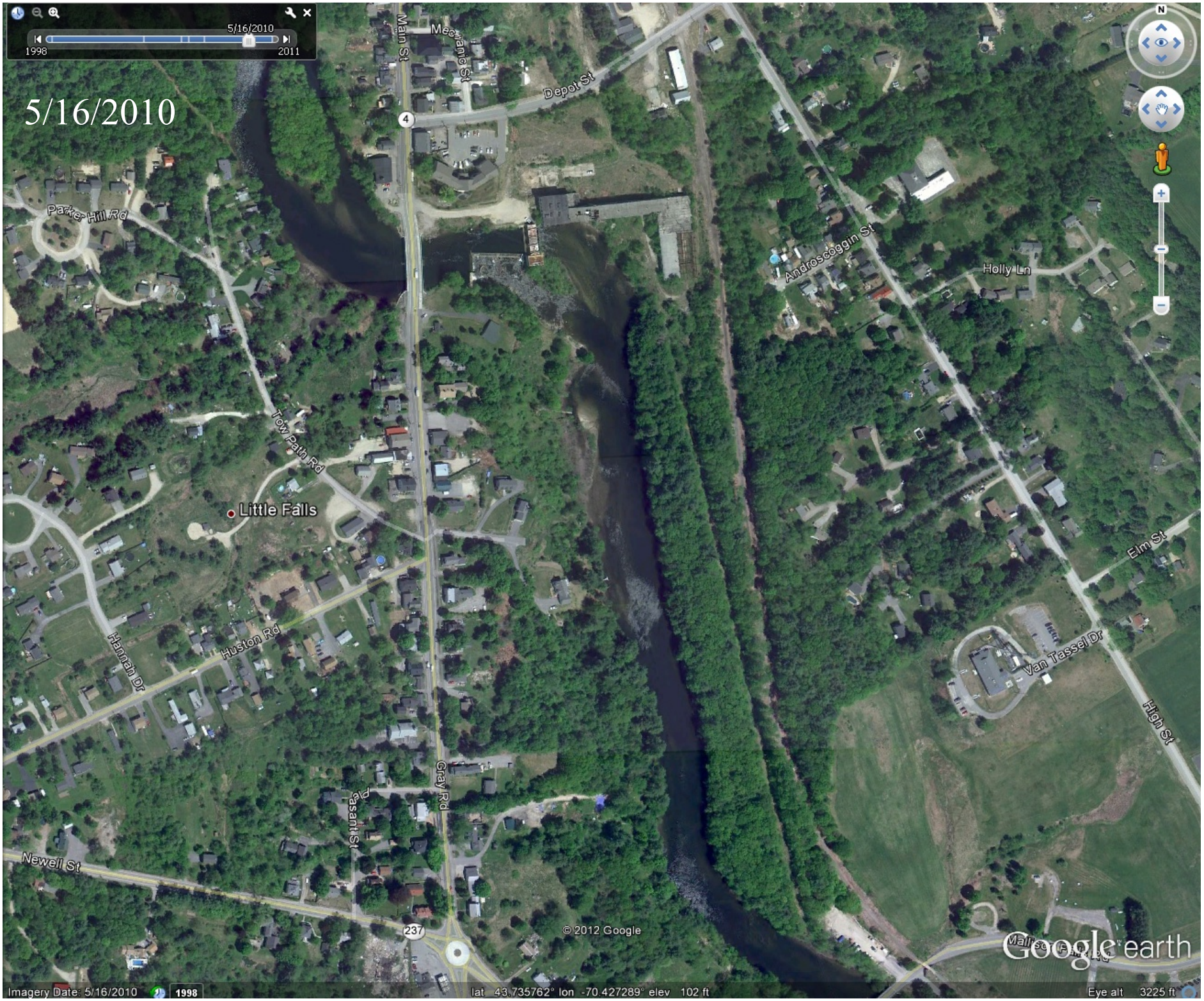
INQUIRY #: 3316917.4
YEAR: 1991
= 750'
N

4/28/1998
1998
2011
4/29/1998
Main St
Mechanic St
Depot St
4
Parker Hill Rd
Androscoggin St
Holly Ln
Tow Path Rd
Little Falls
Elm St
Huston Rd
Hannah Dr
Van Tassel Dr
High St
Gray Rd
Pleasant St
Newell St
237
© 2012 Google
Image U.S. Geological Survey
Google earth
Imagery Date: 4/28/1998
1998
lat 43.732144° lon -70.423624° elev 80 ft
Eye alt 3225 ft

12/30/2003
12/30/2003
Main St
Mechanic St
Depot St
4
Parker Hill Rd
Androscoggin St
Holly Ln
Tow Path Rd
Little Falls
Elm St
Huston Rd
Hannah Dr
Van Tassel Dr
High St
Gray Rd
Pleasant St
Newell St
237
© 2012 Google
Image © 2012 Maine GeoLibrary
Google earth
Imagery Date: 12/31/2002
1998
lat 43.735008° lon -70.426311° elev 108 ft
Eye alt 3225 ft

4/20/2006
4/20/2006
Main St
Mechanic St
Depot St
4
Parker Hill Rd
Androscoggin St
Holly Ln
Troy Path Rd
Little Falls
Elm St
Huston Rd
Hannah Dr
Van Tassel Dr
High St
Grey Rd
Pleasant St
Newell St
237
© 2012 Google
Image U.S. Geological Survey
Google earth
imagery Date: 4/20/2006
1998
lat 43.735048° lon -70.426427° elev 106 ft
Eye alt 3225 ft

9/8/2007
9/8/2007
Main St
Mechanic St
Depot St
4
Parker Hill Rd
Androscoggin St
Holly Ln
Tow Path Rd
Little Falls
Elm St
Huston Rd
Hannah Dr
Van Tassel Dr
High St
Gray Rd
Pleasant St
Newell St
237
© 2012 Google
Image USDA Farm Service Agency
Google earth
Imagery Date: 7/24/2007
1998
lat 43.735363° lon -70.426530° elev 108 ft
Eye alt 3225 ft


5/16/2010
1998
2011
5/16/2010
Main St
Mechanic St
Depot St
Parker Hill Rd
Androscoggin St
Holly Ln
Tow Path Rd
Little Falls
Elm St
Huston Rd
Hannah Dr
Van Tassel Dr
High St
Gray Rd
Pleasant St
Newell St
© 2012 Google
Google earth
Imagery Date: 5/16/2010
1998
lat 43.735762° lon -70.427289° elev 102 ft
Eye alt 3225 ft

11/25/2011
11/25/2011
Main St
Mechanic St
Depot St
4
Parker Hill Rd
Androscoggin St
Holly Ln
Tow Path Rd
Little Falls
Elm St
Hannah Dr
Huston Rd
Van Tassel Dr
High St
Gray Rd
Pleasant St
Newell St
237
© 2012 Google
Image USDA Farm Service Agency
Google earth
Imagery Date: 8/31/2011
1998
lat 43.730564° lon -70.420436° elev 159 ft
Eye alt 3225 ft

APPENDIX 7

Prior Reports

Phase I ESA – Summit – March 17, 2011

Summit Supplemental Sampling Memo – January 5, 2011

Summit Supplemental Sampling Memo (April 2011) –July 25, 2011

Industrial Hygiene Monitoring Report – June 2012

Summit
Environmental Consultants, Inc

summitenv.com

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
KEDDY MILL
7 DEPOT STREET
WINDHAM, MAINE

Prepared for:
TOWN OF WINDHAM
8 School Road
Windham, Maine 04062
Using Funding Provided by EPA Brownfields Assessment Grant #BF96110101

Prepared by:
SUMMIT ENVIRONMENTAL CONSULTANTS, INC.
640 Main Street
Lewiston, Maine 04240

March 17, 2011
Project # 16989.5

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Portland, ME 04103
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PHASE I
ENVIRONMENTAL SITE ASSESSMENT
KEDDY MILL
7 DEPOT STREET
WINDHAM, MAINE

EXECUTIVE SUMMARY

Summit Environmental Consultants, Inc. (Summit) completed a Phase I Environmental Site Assessment (ESA) on the commercial property located at 7 Depot Street. in Windham, Maine (the Site) to determine whether the property has recognized environmental conditions, as defined by the ASTM International (ASTM) Standard E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and in compliance with the All Appropriate Inquiry (AAI) Rule. This Phase I ESA was completed by Mr. Garth Armstrong under the direction of Mr. John K. Cressey an Environmental Professional as defined in §312.10 of 40 CFR 312.

The Site consists of approximately 6.93 acres of commercial land along the south side of Depot Road. One, two-story concrete structure is located on the property. The most recent usage of the building, until 1997, was as a machine shop and also for housing farm equipment and equipment associated with steel manufacturing. The building is currently vacant however some of the equipment and materials associated with the former manufacturing operation remain within the building. The Town of Windham Tax Assessor identifies the Site as Map 38, Lot 7. The Cumberland County Registry of Deeds has a legal description of the Site recorded in Book 24617 Page 165.

Summit conducted historical research, reviewed State records, completed a Site visit, and interviewed city officials and persons having knowledge of the Site in order to evaluate the property for evidence of past, existing, or material threat of future releases of hazardous substances and petroleum products.

A FirstSearch™ Environmental Database Search of State and Federal Records completed for the Site and vicinity, and review of Maine Department of Environmental Protection (MEDEP) records identified:

- No federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) listing within a 0.5-mile radius of the Site;
- No state listed hazardous waste locations within a one-mile radius of the Site;
- Neither the Site nor adjoining properties as Resource Conservation and Recovery Act (RCRA) facilities;
- One spill incident at the Site;
- Twenty state spill incidents within a 0.5-mile radius of the Site;
- No registered underground storage tank locations at the Site; and

Historical documents and interviews with individuals knowledgeable about the Site suggest that the Site was originally developed as a sawmill in 1756. Since 1875, the primary use of the Site has been as a wood pulp processing facility until around the 1920's and was also used for steel manufacturing until approximately 1975.

No hazardous substances were observed in and around the subject property. Several areas of stained concrete flooring are present throughout the building from past usage of heating and hydraulic oil. Empty drums and piles of demolition debris were present on the south side of the property during the Site visit as well as a thick layer of apparent metal slag along the river. Areas of distressed vegetation were also present throughout the Site.

One spill response (in 2005) by the MEDEP was identified for the Site. The MEDEP was notified by a contractor that discovered a spill of approximately 30-40 gallons of Polychlorinated Biphenyls (PCB's) from apparent vandals that had broken into the building. An environmental contractor was hired to clean the spill.

The following known or suspect Recognized Environmental Conditions, Historical Recognized Environmental Conditions and/or De Minimis Conditions have been identified at the Site:

1. Areas of distressed vegetation are present to the north, east and south of the site building.
2. A Supplemental Site Investigation performed by Jacques Whitford in 2003 identified several areas of PCB contamination present on the interior and exterior of the building.
3. A Supplemental Site Investigation performed by Summit and the MEDEP in 2010 also identified areas of PCB contamination on the exterior of the building.
4. Several empty drums, piles of apparent demolition debris and an area of metal slag are present on the south side of the building just off the property line to the west.

De Minimus Conditions:

1. Due to the age of the structure, asbestos-containing materials (ACM) may be present.
2. Due to the age of the structure, lead-based paint (LBP) may be present.

The following recommendations are based upon the findings presented in this report:

- A limited sub-surface investigation (Phase II ESA) should be conducted on areas of the Site that may have been impacted by past usage of the property. These areas include, but may not be limited to, the areas of distressed vegetation, and the location of slag stored on the exterior of the building.
- Work should continue at the Site in compliance with the Self-Implementing Cleanup Plan developed in 2005 and submitted to the USEPA TSCA program.
- Additional samples should be collected to fill data gaps in the sample locations to further delineate PCB-impacted areas.
- Additional security measures should be installed to prevent contact with the elevated PCB concentrations located within soils on the Site.
- Conduct an asbestos identification survey and LBP assessment to determine if these materials are present at the building and to assist in future, re-use planning.

Summit has performed this Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05, Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

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PHASE I
ENVIRONMENTAL SITE ASSESSMENT
KEDDY MILL7 DEPOT STREET
WINDHAM, MAINE

1.0 INTRODUCTION

This Report describes the Phase I Environmental Site Assessment (ESA) completed by Summit Environmental Consultants, Inc. (Summit) for the subject property (Keddy Mill) located at 7 Depot Street in Windham, Maine. This Phase I ESA was completed by Summit for, and at the request of the Town of Windham (the Client) using funding provided by EPA Brownfields Assessment Grant #BF96110101.

1.1 PURPOSE

The purpose of this Phase I ESA is to identify, to the extent feasible, evidence of existing or past release(s) or a material threat of a future release of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and/or controlled substances at, or in the immediate vicinity of the Site (i.e., "Recognized Environmental Conditions", as defined by the ASTM International (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-05 and Environmental Protection Agency (EPA) 40 CFR 312; Standards and Practices for All Appropriate Inquiries*).

1.2 DETAILED SCOPE OF SERVICES

Summit performed the following activities in accordance with the guidelines set forth in ASTM E 1527-05:

1) Conducted Site visits on October 14, 2010, to observe environmental conditions at the Site and adjacent properties;

2) Conducted database searches of government environmental records on October 11, 2010 to identify Federal- or State-listed properties within the search radii specified in the ASTM E 1527-05 standard;

3) Reviewed readily available local records on file at the Town of Windham municipal offices on October 14, 2010 to ascertain Site history and identify recognized environmental conditions at and in the immediate vicinity of the Site;

4) Reviewed resources retained by the Town of Windham Public Library on October 14, 2010 to ascertain prior Site and vicinity uses and history;

5) Reviewed aerial photographs of the Site and vicinity at the Maine Geological Survey located in Augusta, Maine on October 18 2010;

6) Reviewed selected State records on file at the Maine Department of Environmental Protection (MEDEP) on October 18, 2010 to research recognized environmental conditions identified by the database search and MEDEP files;

7) Reviewed property transaction records in the form of Deeds at the Cumberland County Registry of Deeds in Portland, Maine;

8) Interviewed local municipal officials including Mr. Roger Timmons, Town Code Enforcement Officer; and Mr. Charlie Hammonds, Fire Chief, who were knowledgeable of the Site.

1.3 SIGNIFICANT ASSUMPTIONS

Summit did not make significant assumptions while conducting the Phase I ESA on the Site.

1.4 LIMITATIONS AND EXCEPTIONS

Summit prepared this report for the exclusive use of the Client (Town of Windham) and it should not be reproduced or disseminated without the written approval of Summit or the Client. Summit has retained a copy of this report. No additions or deletions are authorized without the written consent of Summit. Use of this report in whole or in part by parties other than the Client or his/her authorized agent is prohibited.

Assessment of the Site (including the collection of samples for laboratory analysis) for the following potential environmental concerns are beyond the scope of the Phase I ESA and were not performed as part of this Phase I ESA:

- Lead-based Paint (LBP)
- Lead in drinking water
- Radon
- Asbestos-containing Materials (ACM)
- Mold, Fungi or microbial growth

1.5 SPECIAL TERMS AND CONDITIONS

Special terms or conditions associated with the Site or the Consultant's abilities to complete the Scope of Services were not established or imposed by the Client/Owner during the completion of this Phase I ESA.

1.6 USER RELIANCE

This Phase I ESA, dated February16, 2010, was prepared by this firm for the Town of Windham. These entities are hereby permitted to rely upon this report and the conclusion therein, subject to Summit's and the Town of Windham's Standard Service Agreement and limitations stated in the report. The recommendations and conclusions discussed herein are based solely and in reliance upon information collected as a result of the activities delineated above in the Scope of Services. Summit neither attests nor renders an opinion as to the accuracy or comprehensiveness of the statements of the individuals interviewed, available governmental records, environmental reports conducted by other consultants, analytical results, or the database search results provided by the database contractor. The conclusions contained within this report remain valid for 180 days from the date of the report, assuming conditions at the Site remain unchanged.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION AND LEGAL DESCRIPTION

The Site is located at 7 Depot Street in Windham, Maine (refer to Figure 1 Site Location Map). The Windham Tax Assessor's Office currently identifies this Site as Lot 7 on Tax Map 38 (refer to Figure 3 for the Town of Windham Tax Map 38). The Cumberland County Registry of Deeds has a legal description of the Site recorded in Book 24617 Page 165.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site consists of one parcel, which comprise 6.93 acres, located on the south side of Depot Street. The Site is located in an area zoned by the Town of Windham as "Industrial". One two-story concrete, metal-roofed structure with a full basement is currently located on the property.

The Site is relatively flat with area topography sloping south and to the west towards the Presumpscot River. The Site is bordered by the Presumpscot River to the south, Maine Central Railroad to the east, Depot Street to the north and a power generation facility to the west.

2.3 PROPERTY USE

2.3.1 Current Use of Property

The Site is currently unoccupied.

2.3.2 Past Use of Property

The site has been used for a saw mill in the late 1700's to the mid 1800's. The Site was then developed in the late 1800's for wood pulp processing until the 1920's and steel manufacturing until approximately 1975.

2.4 DESCRIPTION OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS

2.4.1 Structures

The Site is improved with a two story concrete, metal roofed building, with poured concrete foundation and full basement. The building was constructed in the early 1900's although several of the buildings associated with the Site have been demolished.

Refer to Appendix A for photographs of Site improvements.

2.4.2 Parking Areas and Roads

Gravel parking is available to the north of the Site building along Depot Road. Gravel roads are also present on the property going from east to west, in front of the main Site building and also north to south, around the east side of the main Site building.

2.4.3 Heating and Air Conditioning

The Site building is abandoned and is no longer utilizing heating or air conditioning. Historical records indicate the Site building was heated with fuel oil. Several of the tanks associated with the heating system are still present on the upper level of the east side of the Site building. The tanks have been disconnected and the product removed but the tanks have not been cleaned out.

2.4.4 Sewage Disposal System

The Town of Windham municipal sanitary sewer system does not serve the Site. Historical records indicate a private sewage disposal system was utilized and the holding tanks associated with the system have been removed.

2.4.5 Potable Water Supply

The Site obtained drinking water from the Portland Water District (PWD) but it has been disconnected. Private drinking water sources (i.e.; drilled water supply wells) are not present at the Site.

2.4.6 Electricity

Electrical service for the Site has been disconnected.

2.5 USE OF ADJOINING PROPERTIES

2.5.1 Current Use of Adjoining Properties

North	Commercial properties.
South	S.D. Warren Hydroelectric Plant/Presumpscot River.
East	13 Depot Street is commercial property and Maine Central Railroad.
West	3 Depot Street, residential property Route 202.

2.5.2 Past Use of Adjoining Properties

Based on visual observations and information provided by the Site representative, known historical uses of the adjoining properties include industrial and residential.

3.0 USER PROVIDED INFORMATION

3.1 PROPERTY TRANSACTION RECORDS

A copy of the current registered deed for the property was retrieved from the Town of Windham Tax Assessors Office. Review of the deed indicated that the property was acquired by the current Owner on November 30, 2006. There were no deed restrictions or limitations associated with the property.

3.2 INFORMATION REPORTED BY USER REGARDING ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

Summit did not identify any evidence, nor was made aware by the Client or Site Owners, of any environmental liens relating to current or past violations of environmental laws with respect to the Site.

3.3 SPECIALIZED KNOWLEDGE

The persons responsible for completing the Phase I ESA for this Site do not possess specialized knowledge of the Site or the area surrounding the Site.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The availability of commonly known or reasonably ascertainable information associated with the Site was investigated through the use of interviews with Site representatives, occupants, neighbors and local officials and the review of local information sources such as newspapers and libraries. Commonly known or reasonably ascertainable information about the Site included:

- The Site building was constructed in the early 1900's and has been used as a wood pulp processing and steel manufacturing facility since it was originally constructed;
- The property is currently unoccupied.

3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Evidence of environmental issues that could potentially affect the value of the property was identified at the Site. Summit renders no opinion as to the extent of a potential valuation reduction. These issues are summarized in Section 7.0 of this report.

3.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The current owner of the property is HRC-Village At Little Falls LLC. The Site is currently not occupied, therefore; tenants previously occupying the Site were not available for interviews. Information provided by the Site Manager is summarized in Section 6.2 and in the Environmental Questionnaire Appendix I).

3.7 REASON FOR PERFORMING PHASE I

This Phase I ESA was completed to identify Recognized Environmental Conditions at or in the immediate vicinity of the Site.

3.8 OTHER

3.8.1 Previous Environmental Assessments

A Phase I Limited Environmental Assessment was performed by Consla Geotechnical Engineering, March 18, 1993 and concluded the following:

- Through conversations with Mr. Keddy, the owner at the time, Consla discovered petroleum contamination around the 10,000 gallon fuel storage tank located on the northeastern border of the property. Consla suggested the further inspection of the old substation pad and transformer pad for evidence of possible PCB contamination. The outfall to a floor drain in the basement was unknown, which they also suggested further investigation for.

An Environmental Site Assessment, Phase I & II, was conducted by S.W. Cole Engineering, Inc., November 17, 1997 and concluded the following:

- Summit reviewed a Phase I & II Environmental Site Assessment by S.W. Cole Engineering, Inc. from November 17, 1997. S.W. Cole completed a subsurface investigation of 24 test pits in the area where two fuel storage tanks were located on the northern end of the Site. Soil samples were screened with a Photo-Ionization Device (PID) and six soil samples were sent to a laboratory for detection of fuel oil, PCBs, heavy metals and pesticides. Heavy oil contamination was discovered around the former storage tanks which led to the removal of approximately 11 tons of contaminated soil. Laboratory analysis revealed that copper was the only heavy metal detected to be above naturally occurring levels in the soil. No volatile organic or semi-volatile organic compounds were discovered.
- After documenting the removal of contaminated soil to meet the Baseline-2 clean up goals established by the MEDEP, S.W. Cole suggested the current property owner or any potential purchaser apply for the MEDEP Voluntary Action Response Program (VRAP). The Baseline 2 goal established by the MEDEP required the removal of fuel oil contaminated soils ranging from 200 – 400 parts per million (ppm).
- At the conclusion of the Phase II assessment, six fuel storage tanks located in the old boiler house were still present. The tanks have since been removed.

A Supplemental Site Investigation was performed by Jacques Whitford Company, Inc., March 9, 2004 which concluded the following:

- Previous Site investigations revealed no impact by gasoline, diesel or No. 2 fuel oil.
- Oil contaminated soil discovered during the S.W. Cole investigation had been removed.
- Heavy metal contamination from past activities was not discovered during this or previous Site assessments.
- PCB contaminated soil above clean-up guidelines was found in soil-like material in the basement of the mill building as well as a cut-out in the floor and outside soils, next to the building.

Surface soil and wood sampling – 2005

Ransom Environmental Consultants, Inc. (Ransom) collected additional soil and wood chip samples from within the Site building in preparation of developing a Self-Implementing PCB Cleanup Plan. PCBs were identified throughout the soils observed on the concrete floors and within a sump location. Based upon these results a Self-Implementing Cleanup Plan was submitted to USEPA for review. It was accepted with the first step to be the removal of the soils and sediment throughout the building impacted with PCBs.

Interior soil sampling – 2010

Summit, under the direction of the MEDEP, completed hand augers within soil piles observed within the Site building which were not present during the Ransom investigation in 2005. Samples were collected from varying depths to provide coverage of the piles both horizontally and vertically. These soil samples were submitted to Maine Environmental Laboratory (MEL) of Yarmouth, Maine for analysis of PCBs. Sample results indicated that the soil piles in the generator room and just outside of this room were impacted above the TSCA cleanup standard. Soil piles on the upper floor were below the cleanup standard. Based upon these results, soils were removed by Environmental Projects, Inc. under the direction of GEI Consultants, Inc. (GEI) on behalf of the property owner.

A supplemental site investigation was performed by Summit and the MEDEP on October 5, 2010. During this investigation, 150 surface soil samples were collected for PCB analysis by the USEPA Region 1 Laboratory.:

- Several areas of PCB contamination above cleanup guidelines were confirmed in several locations around the exterior of the building due to past manufacturing activities.

The owners of the Site applied for inclusion into the state Voluntary Response Action Plan (VRAP) which was granted in November 2005.

3.8.2 Environmental Permits and/or Violations

Environmental permits, notices or other governmental correspondence relating to past or current environmental violations were not identified by, or made available to Summit.

4.0 RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

4.1.1 Federal Sources

Summit obtained radius searches of the Federal and State environmental regulatory databases in accordance with ASTM E 1527-05 standards. Pertinent information is presented in the following sections. The database search report (including databases searched, radius search distances, and detailed information regarding listed properties) is presented as Appendix C.

4.1.1.1 National Priority List Sites

The database search did not identify any National Priority List (i.e., Superfund) sites within a one-mile radius of the Site or any delisted NPL sites with a 0.5-mile radius of the Site.

4.1.1.2 CERCLIS Listings

The database search did not identify the Site as having a Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) listing or a CERCLIS NFRAP (no further remedial action is planned) listing.

4.1.1.3 RCRA Facilities

The database search did identify a site to the north of the facility, New England Antigenetics, as a Resource Conservation and Recovery Act (RCRA) hazardous waste generator facility. The facility has been out of operation since 2003.

The database did not identify any RCRA Corrective Action (CORRACTS) facilities within a one-mile radius of the Site.

The database search did not identify any RCRA non-CORRACTS treatment, storage, and disposal (TSD) facilities within a 0.5-mile radius of the Site.

4.1.1.4 ERNS Sites

The database search did not identify the Site as an Emergency Response Notification System (ERNS) site (site only).

4.1.1.5 Federal Institutional Control/Engineering Control Registries

Federal Institutional Controls and Engineering controls were not identified in property deeds reviewed at the Cumberland County Registry of Deeds on April 16, 2010.

4.2 STATE AND TRIBAL SOURCES

4.2.1 State and Tribal Listed Sites

The database did not identify the Site, or any other sites within a 0.5-mile radius, as a hazardous waste site.

4.2.2 State and Tribal Uncontrolled Sites

State and Tribal Uncontrolled Sites were not identified within a 0.5-mile radius of the Site.

4.2.3 State and Tribal Registered Storage Tanks

Underground Storage Tanks (USTs)

The database search did not identify the Site as a registered UST location. One adjacent property, 13 Depot Street (Registration #18653), was identified as a state-registered UST

location. The UST was a 500 gallon gasoline tank and was removed in 1993. Gasoline impacted soils were found down-slope from the site during a 2004 site assessment and are currently being addressed under the state Voluntary Response Action Plan (VRAP) program.

Above Ground Storage Tanks (ASTs)

Local and state records did not identify ASTs currently or previously located at the Site. See Section 5.4 for site observations regarding ASTs on-site.

4.2.4 State and Tribal Leaking USTs (LUSTs) (0.5-mile radius)

The MEDEP does not maintain a separate listing of LUST sites. Therefore, LUSTs are included in the State and Spill site databases discussed in Sections 4.2.1 and 4.2.5, respectively.

4.2.5 State and Tribal Solid Waste Facilities/Landfills

The database search did not identify any solid waste facilities and/or landfills within a 0.5-mile radius of the Site.

4.2.6 State and Tribal Spill Sites

The database search identified one spill incident at the Site, as well as twenty spill incidents within a 0.5-mile radius of the Site. Summit conducted a file review for the Site and immediate vicinity (within 0.25-mile radius of the site) at the MEDEP on October 22, 2010. Refer to Appendix D for copies of MEDEP spill files. A summary of significant spills are presented below:

Keddy Mill – (The Site)

Spill # P-868-2005, July 5, 2005: The MEDEP was notified by a contractor that discovered a spill of approximately 30-40 gallons of Polychlorinated Biphenyls (PCB's) from apparent vandals that had broken into the building. An environmental contractor was hired to clean the spill. No further action was needed.

Westbrook Transmission, (approximately 0.11_miles northeast of the Site)

Spill # P-296-2005, April 19, 2005: The MEDEP was notified by the owner of the property of a former tenant that had aledgedly dumped tires, petroleum products, batteries and other fluids on the property. Gasoline contaminated soil had also been discovered during the removal of a 500 gallon UST in 1993 (Spill # P-696-1993) which was not removed due to the site being considered baseline at the time and there were no soils above the baseline cleanup standard. A site assessment performed in 2004 also revealed subsurface petroleum contamination down gradient from the former 500 gallon UST and a former 10,000 gallon UST gasoline tank location. It was determined the best course of action would be to perform a surficial cleanup and turn the site over to the VRAP program.

Energy Depot, (approximately 0.11 miles northeast of the Site)

Spill # P-696-1993: The MEDEP was notified when contaminated soil was discovered during the removal of a 500 gallon UST at the Energy Depot on Route 22. Contamination levels of 600 ppm were discovered in the backfill material. The MEDEP responder determined that since the natural soils in the area contained clay, there would be no need for further soil removal.

South Windham Community Church, (approximately 0.11 miles northwest of the Site)

Spill # P-716-1997: Approximately 30 gallons of #1 fuel oil (kerosene) spilled onto the basement floor of the church due to a damaged AST valve. The spill was contained and cleaned with sorbent. No further action was necessary.

Bomb Shelter, (approximately 0.13 miles southeast of the Site)

Spill # P-193-1998: The MEDEP was notified when approximately 50 gallons of #2 fuel oil had spilled onto the floor of the shelter due to the filter being broken off by a maintenance person. The oil was contained and cleaned up, no further action was necessary.

Emergency Management Bunker (approximately 0.13 miles southeast)

Spill # 718-1994: The MEDEP was contacted regarding a request for a waiver for a tank removal the the Emergency Management Bunker in Windham. The waiver was granted and the tanks were removed on Nov. 16, 1994. No visible signs of contamination were present during the removal. No further action was necessary.

Randall Residence (approximately 0.15 northeast)

Spill # P-246-1988: The MEDEP was notified of an iol spill at the residence when bottled gas was being delivered to the location. Upon arriving at the residence, the MEDEP responder discovered several feet of water in the basement with a layer of #2 fuel oil on top. A contractor was called in and removed approximately 6200 gallons of oil and water along with 2 to 4 cubic yards of oil-contaminated clay that was present in the basement. There appeared to have been no further soil contamination since the oil stayed on top of the water and water draining back into the basement had no odor. No further action was necessary.

Real School (approximately 0.18 miles southeast)

Spill # P-375-2002: The MEDEP was notified of a small spill of approximately 5 gallons of #2 fuel oil during a fill up. The delivery driver cleand the spill with sorbent pads, no further action was necessary.

Bill Eskilson Residence (approximately 0.20 miles southeast)

Spill # P-1053-2002: Approximately 0.12 gallons of #2 fuel oil spilled onto a concrete floor due to a faulty fire-matic valve. The spill was cleaned with sorbent pads, no further action was necessary.

Michael Shaughnessy Residence (approximately 0.21 miles northwest)

Spill # P-728-1999: The MEDEP was notified when approximately 50 gallons of #2 fuel oil was spilled onto the dirt floor of the basement due to a leaking fuel line. The majority of the spill was removed with a vactor truck but some contaminated soil was left in place as not to disturb the support structures of the building. No further action was necessary.

Baglivo Residence (approximately 0.22 miles northwest)

Spill # P-290-1988: The MEDEP was notified of an oil spill as a result of an overfill of an AST. An estimated 5 gallons of K-1 spilled onto a gravel driveway and was padded up with

sorbent pads and speedi-dri by delivery personnel. The spill was cleaned up to the homeowners satisfaction, no further action was necessary.

Based upon information obtained at the MEDEP regarding remedial status; hydraulic location (with respect to ground water flow) relative to the Site; and distance from the Site; the properties identified by the database search do not likely pose a material threat of release of petroleum products and/or other hazardous materials to the Site.

4.2.7 State and Tribal Voluntary Clean-up Sites

Summit identified the Site and 13 Depot Street as state or tribal voluntary clean-up sites within a 0.5-mile radius of the Site.

4.2.8 State and Tribal Brownfield's Sites

Summit identified the Site and 13 Depot Street as state or tribal Brownfield's sites within a 0.5-mile radius of the Site.

4.3 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

4.3.1 Database Search of Unmapped Properties

Unmapped sites located in the general vicinity of the Site are included in the database search. However, due to inaccurate or missing information provided by the appropriate governmental agency, the database search contractor was unable to definitively plot the location of these spill sites.

The unmapped site list was reviewed in an attempt to definitively locate these properties. Based upon a practical review of the information, it was determined that neither the Site nor adjacent properties were identified on the list of unmapped sites. Refer to Appendix B for information on unmapped properties.

4.3.2 Local Environmental Record Sources

Summit reviewed local government records in an attempt to identify recognized environmental conditions (i.e.; registered USTs and ASTs, the licensed storage of hazardous materials, and any hazardous waste sites, sources, and/or facilities) at or in the immediate vicinity of the Site.

4.3.2.1 Sewer Authority

The site was served by a private sewage system located to the north of the Site building. The holding tanks associated with the system have been removed.

4.3.2.2 Water Authority

The Portland Water District, which supplies potable water to the Site and vicinity, did not have any information regarding concerns with the water supply or usage at the Site. The water district did not have any information regarding the current or historical presence of drinking water wells on the Site.

4.3.2.3 Fire Department

Chief Charlie Hammond of the Windham Fire Department was contacted regarding his knowledge of environmental concerns at the Site. Chief Hammond was not aware of any current or historical environmental issues or concerns at the Site.

4.4 PHYSICAL SETTING SOURCES

4.4.1 Topography

The United States Geological Survey (USGS) North Windham, Maine 7.5 Minute Topographic Quadrangle Map, which includes the Site and surrounding properties, shows that the Site is at an approximate elevation of 106 feet above mean sea level (Figure 1). Review of this map shows that the regional topography slopes west toward the Presumpscot River.

4.4.2 Geology

The Bedrock Geologic Map of Maine (Osberg, Hussey, Boone, 1985) describe the Site as being underlain by Silurian-Ordovician aged calcerous sandstone; Interbedded sandstone and impure limestone

The Surficial Geologic Map of Maine describes the Site as being Till – Heterogeneous mixure of sand, silt, clay and stones. May include many boulders. Generally massive, but in many places contains beds and lenses of variably washed and stratified sediments.

4.4.3 Hydrology

4.4.3.1 Surface Water

Review of the USGS North Windham, Maine quadrangle topographic map and local and municipal maps of the Site and surrounding areas, showed the Presumpscot River bordering the property to the west and south.

4.4.3.2 Flood Zone

The Federal Emergency Management Agency Flood Insurance Rate Map (FIRM) 2301890025B, dated September 2, 1981, for the vicinity indicates the Site is within Zone A5. A Community Flood Insurance Study has identified Zone A5 areas to be areas of 100-year flood; base flood elevations and flood hazard factors determined. . Refer to Appendix E for a copy of the portion of the FIRM showing the Site and surrounding property.

4.4.3.3 Wetlands

According to the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI), Riverine wetlands border the property to the west and south. The NWI identified mapped wetlands within a 0.5-mile radius of the Site to the east, southeast, northwest and southwest. Refer to Appendix G for the location of mapped wetlands in the vicinity of the Site

4.4.3.4 Hydrogeology

The Significant Sand and Gravel Aquifer Map of the Windham Quadrangle, Maine (Neil, 1998) indicates that the Site is not underlain by a mapped significant sand or gravel aquifer. The nearest mapped significant sand or gravel aquifer is located approximately 0.6 miles to the southeast of the Site. Based upon the USGS topographical map for the Site and surrounding area, groundwater flow is inferred to be generally southwesterly toward the Androscoggin River. Refer to Appendix F for a map showing the location of the mapped aquifer.

4.5 HISTORICAL USE INFORMATION ON THE PROPERTY

Historical sources associated with the Site and adjoining properties were reviewed to develop a history of the previous uses in order to help identify the likelihood of past uses having led to Recognized Environmental Conditions at the Site. Historical sources from the present to the property's first developed use, or back to 1940 (whichever is earlier) were reviewed where

available. The following historical sources were reviewed during the completion of this Phase I ESA:

4.5.1 Property Transaction Records

Summit reviewed property transaction records, in the form of deeds, at the Cumberland County Registry of Deeds, on October 14, 2010. Information from this review is summarized below in Table 1. The compiled information was used to evaluate historical property ownership and land use and does not represent a legal title search. Summit identified evidence of industrial and/or other high-risk uses with respect to environmental liabilities in the property transaction records reviewed in the form of the past usage as a metal foundry. Summit's review of Deed's does not constitute a legal title search for the property.

Table 1: Historical Ownership

Owner	Book/Page	Date of Purchase
HRC-Village at Little Falls, LLC	24617/165	November 30, 2006
Lumas Inc.	18046/32	September 5, 2002
Presumpscot/Phoenix, LLC	13431/164	November 6, 1997
Barnard-Marquit Corp.	3612/25	July 17, 1975
Lawrence J Keddy	3545/141	May 16, 1974
Park Corporation	3450/31	August 28, 1973
Grinnell Corporation	3110/603	November 28, 1969
Keddy Manufacturing Company	2611/192	June 6, 1961
Atlantic Mills, inc.	2192/14	August 19, 1954
Irving Fox	1787/353	December 10, 1953
Fred Weiland, Joseph Hoodin, Albert Buthckes, and Jerome Jelin	2146/461	August 28, 1953
Maine Steel	1800/492	December 13, 1945
Windham Fibres	1787/353	July 25, 1945
Cumberland Securities Group	1601/95	March 7, 1940

4.5.2 Sanborn Fire Insurance Rate Maps

Sanborn Fire Insurance Rate Maps (Sanborn Maps) for the Town of Windham from 1922, 1934 and 1934 all showed the Site as developed with multiple buildings associated with past activities. The portions of the Site building that were previously demolished are presented on all three maps as well as the fuel storage tanks that were located on the northern edge of the property.

4.5.3 Aerial Photographs

Aerial photographs from 1964 and 1980 were reviewed at the Maine Geological Survey in Augusta, Maine. Summit also reviewed a 2010 aerial photograph of the Site available on Google Earth. The 1964 and 1980 aerial photographs depict the property as developed. The 2010 photograph depicts the Site developed with one structure. Copies of these aerial photographs are included in Appendix B.

4.5.4 Historical Atlases

An 1875 Atlas of Cumberland County Maine (F. W. Beers) depicts the approximate Site location as undeveloped. Refer to Appendix H for a copy of the historical atlas.

4.5.5 Historical City Directories

Historical City Directories were not identified for the Town of Windham.

4.5.6 Property Tax Files

Property tax cards reviewed at Cumberland County Office of Deeds list the site as Map 38, Lot 7 and owned by HRC-Village At Little Falls, LLC.

4.5.7 Code Enforcement Files

Code Enforcement Files reviewed at the Windham Town Office revealed code enforcement violations from two separate occasions in 2002. On January 10, 2002, the owner of the property was notified of an "unsafe structure" which included open doors, broken windows, several potential fall hazards, collapsing roof and hazardous materials left on site.
On October 3, 2002, the owner was notified of wastes located at the site. Concerns included old paints, solvents, unknown liquids, mercury containing lamps, PCB ballasts and lead acid batteries.
Some of the main entrances to the Site building have been boarded up to prevent access The hazardous materials have since been removed by a licensed contractor although several fluorescent light ballasts remain in the building.

4.6 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

4.6.1 Sanborn Fire Insurance Rate Maps

Sanborn Maps for the Town of Windham from 1922, 1934 and 1944 indicated that the surrounding properties were primarily residential. The 1922 map shows the S.C. Andrew Box Factory to the north which became the L.C. Andrew Lumber & Planing Mill on the 1934 and 1944 maps. Some commercial and governmental properties such as the post office and fire department were located to the west on all three maps..

4.6.2 Aerial Photographs

Aerial photographs from 1964 and 1980 were reviewed at the Maine Geological Survey in Augusta, Maine. Summit also reviewed a 2010 aerial photograph of the Site available on Google Earth. The 1964 and 1980 aerial photographs depict the property as developed. The 2010 photograph depicts the Site developed with one structure. Copies of these aerial photographs are included in Appendix B.

4.6.3 Historical Atlases

4.6.4 Historical City Directories

Historical City Directories were not identified for the Town of Windham

4.6.5 Property Tax Files

Property Tax Files list adjoining properties as

Map 38, Lot 27-1 - residential property to the west

Map 38, Lot 10 – industrial property to the west

Map 38, Lot 6 – industrial property to the east

Map 38, 39 – industrial property to the north

5.0 ENVIRONMENTAL SITE RECONNAISSANCE

5.1 METHODOLOGY AND LIMITING CONDITIONS

Summit conducted a visual reconnaissance of the Site on October 14, 2010. Summit's reconnaissance consisted of a systematic traverse of the Site to visually observe Site improvements and grounds. Summit also attempted to visually inspect exterior portions of adjacent properties observable from within the boundaries of the Site.

5.2 GENERAL SITE SETTING

A detailed description of the Site and the general site setting are included in Sections 2.0, 3.0 and 5.0 of this report.

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

5.3.1 Exterior Observations

Hazardous substances and /or petroleum products identified on the Site include PCB contaminated soil identified in several locations around the building. A large area of metal slag is also present along the southern edge of the property, just outside the property line to the west. The metal slag material may have been a by-product of the steel manufacturing that took place onsite and dumped along the river.

5.3.2 Interior Observations

Hazardous substances in the form of stained concrete were observed in several locations during the Site visit. A previous Site assessment determined the areas of staining to contain petroleum and PCBs.

5.4 STORAGE TANKS

5.4.1 Aboveground Storage Tanks (ASTs)

5.4.1.1 Exterior Observations

Current or historical evidence regarding the presence of ASTs were not observed on the exterior of the Site building.

5.4.1.2 Interior Observations

Four 275-gallon, # 2 fuel oil AST's are present inside the building. The tanks were damaged due to vandalism which led to the release of approximately 20 gallons of fuel oil. The contents of the tanks have been removed and the tanks were taken out of service. Several other areas of staining are present throughout the building due to past usage of fuel and transformer oil.

5.4.2 Underground Storage Tanks (USTs)

5.4.2.1 Exterior Observations

Evidence of UST's were not observed during the Site visit

5.4.2.2 Interior Observations

Visual evidence of USTs (such as vent or fill pipes) were not observed in the interior of the Site building.

5.5 STRONG, PUNGENT, OR NOXIOUS ODORS

5.5.1 Exterior Observations

Strong, pungent or noxious odors were not observed at the Site.

5.5.2 Interior Observations

Strong, pungent or noxious odors were not observed within the Site building.

5.6 POOLS OR SUMPS CONTAINING LIQUID

5.6.1 Exterior Observations

Pools or sumps, containing liquids or unidentified oil and hazardous materials (OHM) were not observed at the Site.

5.6.2 Interior Observations

Pools or sumps containing liquids or unidentified OHM were not observed on the interior of the Site building. However, several holes in the floor of the basement level are open to the river and, at times of high water, the river floods this portion of the building.

5.7 POLYCHLORINATED BIPHENYLS (PCBS)

5.7.1 Exterior Observations

Large electrical, hydraulic, or heat-transfer equipment, that might contain PCBs were not observed on the exterior. The 2005 Phase I Plan for Self-Implementation of PCB Cleanup Waste performed by Ransom Environmental revealed PCB contamination in the soil in several areas on the outside of the building. In addition, the soil sampling completed by Summit in October 2010 confirmed that soils outside of the building are impacted with PCBs.

5.7.2 Interior Observations

Large electrical, hydraulic, or heat-transfer equipment, that might contain PCBs, were not observed on the interior of the Site building. The 2005 Phase I Plan for Self-Implementation of PCB Cleanup Waste performed by Ransom Environmental revealed PCB contamination in the concrete in several areas inside the building as well as within sludges. The sludges have since been removed to the satisfaction of the MEDEP.

5.8 PITS, LAKES, OR LAGOONS

5.8.1 Exterior Observations

Waste disposal and/or waste treatment pits, lakes, or lagoons, or evidence of their presence (i.e.; staining, corrosion) were not observed at the Site.

5.8.2 Interior Observations

Waste disposal and/or waste treatment pits, lakes, or lagoons, or evidence of their presence (i.e.; staining, corrosion) were not observed on the interior of the Site building.

5.9 STAINED SURFACES OR DISTRESSED VEGETATION

5.9.1 Exterior Observations

Areas of distressed vegetation, in the form of sparse vegetation, were present all around the exterior of the building. A Phase I Plan for Self-Implementation of PCB Cleanup Waste

performed by Ransom Environmental identified several areas outside the building with PCB contamination.

5.9.2 Interior Observations

Several areas of stained surfaces were present throughout the Site building due to the use of fuel oil for heat and the past storage of electrical transformers. A previous Phase I I identified several areas inside the building with PCB contamination.

5.10 UNDERGROUND STRUCTURES

The penstocks for the hydroelectric dam are present within the western portion of the building. These are considered to be a part of the dam and not a portion of the property.

5.11 FLOOR DRAINS AND SUMPS

A floor drain was observed in the basement of the Site building although previous Site assessments were not able to determine the outflow of the floor drain. In addition, holes in the floor of the basement in the western portion of the building are direct discharge points to the river below.

5.12 HEATING AND COOLING

The Site building is abandoned and is no longer utilizing heating or air conditioning. Historical records indicate the Site building was heated with fuel oil. Several of the tanks associated with the heating system are still present on the upper level of the east side of the Site building. The tanks have been disconnected and the product removed but the tanks have not been cleaned out.

5.13 SOLID WASTE DISPOSAL

5.13.1 Exterior Observations

Evidence of solid waste dumping at the Site included the presence of several 55-gallon drums located on the south side of the Site building along with piles of demolition debris and a large area of metal slag on the southern edge of the property. A previous Phase I ESA from 1997 indicated test pits around the Site revealed fill materials up to 13 feet thick, consisting of wood, metals, bricks, glass, clay gravel, sand rubber, asphalt shingles, leather and ash. However, locations of the test pits are unknown. A large pile of bricks is also present on the east end of the building from the demolition of the former boiler house and forge shop.

5.13.2 Interior Observations

The interior of the building has the remnants of the past usage of the building which were no longer usable to the current owner. Several large metal totes are present in the upper level of the main Site building that appear to be from past usage.

5.14 WASTE WATER DISPOSAL

5.14.1 Exterior Observation

Waste water disposal through the use of a septic system was not observed during the Site visit. The facility utilized a private septic system when in operation but the holding tanks have been removed.

5.14.2 Interior Observations

Disposal of waste water at the Site was restricted to the disposal of waste water through the septic system.

5.15 UNIVERSAL WASTE

Universal Waste was not observed in the facility.

5.16 ASBESTOS CONTAINING MATERIALS

Pursuant to 29 Code of Federal Regulations (CFR) 1926.1101, for buildings constructed prior to 1980, all building materials are assumed to contain asbestos until laboratory analysis proves otherwise. Since the Site building was constructed in 1967, it is possible that asbestos-containing building materials are present.

5.17 LEAD-BASED PAINT

An inspection and laboratory analyses for lead-based paint (LBP) is beyond the scope of this Phase I ESA. The use of LBP was discontinued in 1978. The Site building was constructed prior to 1978; therefore, LBP may be present on interior and/or exterior painted surfaces. Flaking paint was observed throughout the Site building. Refer to Appendix A for photographs.

6.0 INTERVIEWS

6.1 INTERVIEW WITH SITE OWNER

HRC, Village at Little Falls, LLC, the Site owner, provided updated information in the Questionnaire through Mr. Steve Etzel who is the Project manager for the owner.

6.2 INTERVIEW WITH SITE MANAGER

Mr. Steve Etzel, the project manager for the Site owner, completed a Phase I ESA Questionnaire for the property (Refer to Appendix I). Mr. Etzel referred to previous ESA's to describe previous usage, which included a saw mill, wood pulp processing and steel manufacturing. Mr. Etzel was not aware of environmental liens, violations of environmental law, environmental litigation, or administrative actions related to a release or threatened release of hazardous substance, waste, or petroleum product at the Site.

6.3 INTERVIEW WITH OCCUPANTS

There are currently no occupants at this facility.

6.4 INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS

Staff members of the following types of state and/or local government agencies were interviewed with regards to current and historical uses and events at the Site and adjoining areas.

6.4.1 Local Fire Department

Mr. Charlie Hammond, the fire chief for the Town of Windham Fire Department, contacted on October 14, 2010, was not aware of any spills or releases of petroleum products or hazardous material on the Site, nor was he aware of any other environmental concerns associated with the Site or adjoining properties.

6.4.2 Code Enforcement Officer

Mr. Tom Lister, the Town of Windham Code Enforcement Officer, contacted on October 14, 2010, was not aware of any potential environmental concerns regarding stored or released petroleum products or hazardous materials at or to the Site.

6.5 OTHER INTERVIEWS

Additional interviews were not completed as part of this Phase I ESA.

7.0 FINDINGS

The following known or suspect Recognized Environmental Conditions, Historical Recognized Environmental Conditions and/or De Minimis Conditions have been identified at the Site:

1. Areas of distressed vegetation are present to the north, east and south of the site building.
2. A Supplemental Site Investigation performed by Jacques Whitford in 2003 identified several areas of PCB contamination present on the interior and exterior of the building.
3. A Supplemental Site Investigation performed by Summit and the MEDEP in 2010 also identified areas of PCB contamination on the exterior of the building.
4. Several empty drums, piles of apparent demolition debris and an area of metal slag are present on the south side of the building just off the property line to the west.

De Minimus Conditions:

1. Due to the age of the structure, asbestos-containing materials (ACM) may be present.
2. Due to the age of the structure, lead-based paint (LBP) may be present.

8.0 OPINION

Based on the investigations conducted for this Phase I ESA, conditions indicative of releases or threatened releases of hazardous substances, pollutants, contaminants, petroleum or petroleum products and/or controlled substances on, at, in or to the subject property were identified. Recognized environmental conditions (as defined by ASTM) are currently present at the Site.

It is the opinion of the investigator(s) that, based upon the results of this Phase I ESA for the Site, additional investigations to detect or identify the presence of hazardous substances or petroleum products are required for this Site.

9.0 DATA GAPS

Significant data gaps were not identified during the completion of the Phase I ESA for the Site.

10.0 CONCLUSIONS/RECOMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 on the 7 Depot Street, Windham, Maine (the Site). Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed evidence of “Recognized Environmental Conditions” in connection with the Site.

The following recommendations are based upon the findings presented in this report:

- A limited sub-surface investigation (Phase II ESA) should be conducted on areas of the Site that may have been impacted by past usage of the property. These areas include, but may not be limited to, the areas of distressed vegetation, and the locations of metal slag stored on the exterior of the building.
- Work should continue at the Site in compliance with the Self-Implementing Cleanup Plan developed in 2005 and submitted to the USEPA TSCA program.
- Additional samples should be collected to fill data gaps in the sample locations to further delineate PCB-impacted areas.
- In the spring, additional security measures will need to be installed to prevent contact with the elevated PCB concentrations located within soils on the Site.
- Conduct an asbestos identification survey and LBP assessment to determine if these materials are present at the building and to assist in future, re-use planning.
- PCB samples were taken in October of 2010, indicating levels above cleanup guidelines from samples taken around the perimeter of the building. During the sampling, an area of coal ash and metal filings were found to the west of the Site building.

11.0 DEVIATIONS

This assessment was completed without deviations or deletions from the scope of the ASTM E 1527-05 Standard or with client-imposed constraints on the performance of this work.

12.0 ADDITIONAL SERVICES

Additional services, beyond the scope of practice described in the ASTM E 1527-05 Standard were not required or included in this report.

13.0 REFERENCES

The following sources of information and published references were relied upon in preparing this Phase I ESA:

Town of Windham:

Public Library; resources reviewed October 14, 2010.

Cumberland County:

Registry of Deeds; records reviewed October 14, 2010.

State of Maine:

Department of Environmental Protection, records reviewed October 18, 2010.

Database Search:

DataMap Technology Corporation, "Environmental FirstSearch™ Report," compiled October 11, 2010.

Resources:

United States Geological Survey; North Windham Quadrangle 7.5 minute series topographic quadrangle, revised 1973.

Maine Geological Survey, Department of Conservation; Bedrock Geologic Map of the North Windham Quadrangle, Maine, by Arthur M. Hussey II, dated 1997.

Maine Geological Survey, Department of Conservation; Surficial Geology of the North Windham Quadrangle, Maine, by Andree M. Bolduc, Woodrow B. Thompson, Andres Meglioli, dated 1997.

Maine Geological Survey; Significant Sand and Gravel Aquifers of the North Windham Quadrangle, Maine, compiled by Craig D. Neil, dated 1998.

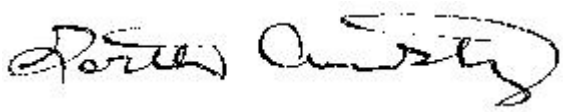
Federal Emergency Management Agency Flood Insurance Rate Map Community Panel #2301890025B, dated September 2, 1981.

Sanborn Flood Insurance Rate Maps from 1922, 1934 and 1944 for the Town of South Windham.

14.0 SIGNATURE AND QUALIFICATIONS OF SUMMIT ENVIRONMENTAL PROFESSIONAL(S)

Summit performed services in a manner consistent with the guidelines set forth in the ASTM E 1527-05 standard.

The following Summit personnel possess the sufficient training and experience necessary to conduct a site reconnaissance, interviews, and other activities in accordance with this practice, and from the information generated by such activities, have the ability to develop opinions and conclusions regarding recognized environmental conditions in connection with the property in question.



Garth W. Armstrong
Staff Scientist

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Individual qualifications for Summit personnel performing work associated with this Phase I ESA are included in Appendix K.

John K. Cressey
Project Manager

Figures

Figure 1

Site Location Map

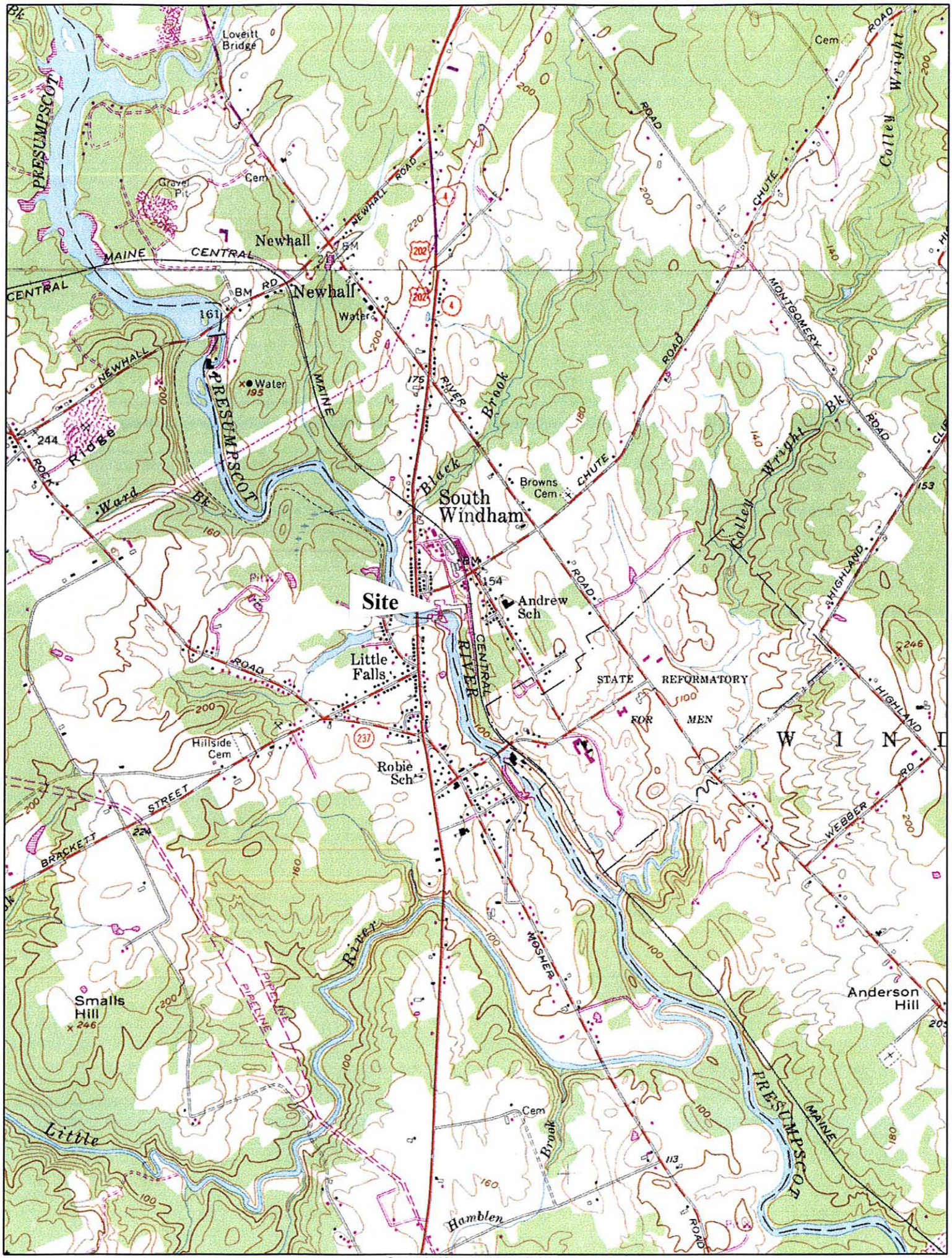
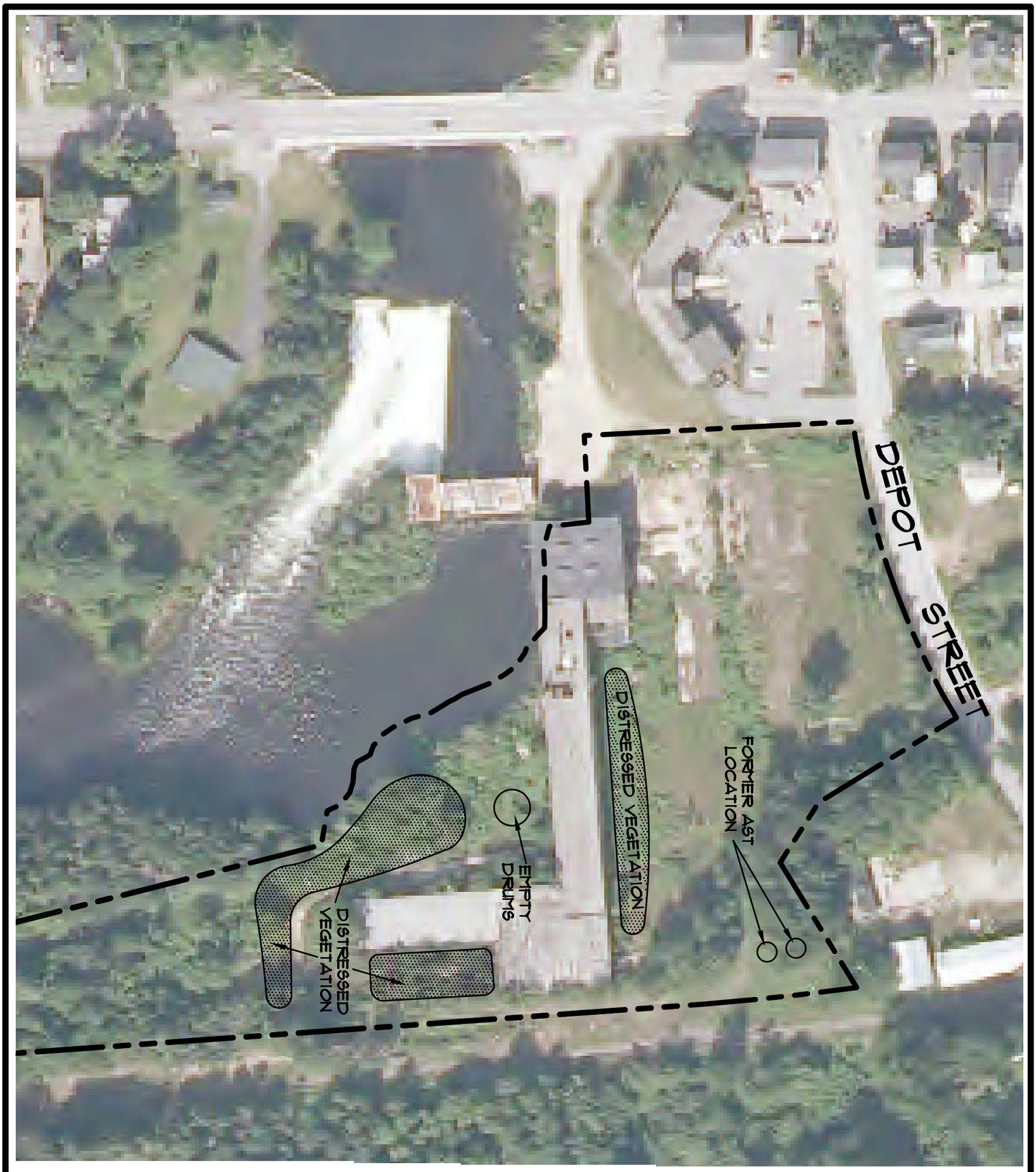

Site
Newhall
Newhall
South Windham
Little Falls
Andrew Sch
Robie Sch
Hillside Cem
Browns Cem
STATE REFORMATORY FOR MEN
Smalls Hill
Anderson Hill
PRESUMPSCOT
MAINE CENTRAL
CENTRAL RIVER
Black Brook
Colley Wright
Little
Hamblen
Loveitt Bridge
Gravel Pit
Water
Cem
NEWHALL ROAD
CHUTE ROAD
MONTGOMERY ROAD
HIGHLAND
WEBBER RD
BRACKETT STREET
ROCK RIDGE
Ward Bk
MOSHER
PIPELINE
Copyright (C) 1997, Maptech, Inc.

Figure 2

Site Plan



SCALE: 1" = 100'

0 50 100 200 300

NORTH

N

FIGURE 1

PHASE I

KEDDY MILL

DEPOT STREET - SOUTH WINDHAM

PREPARED FOR

TOWN OF WINDHAM

640 MAIN ST.
LEWISTON, MAINE 04240

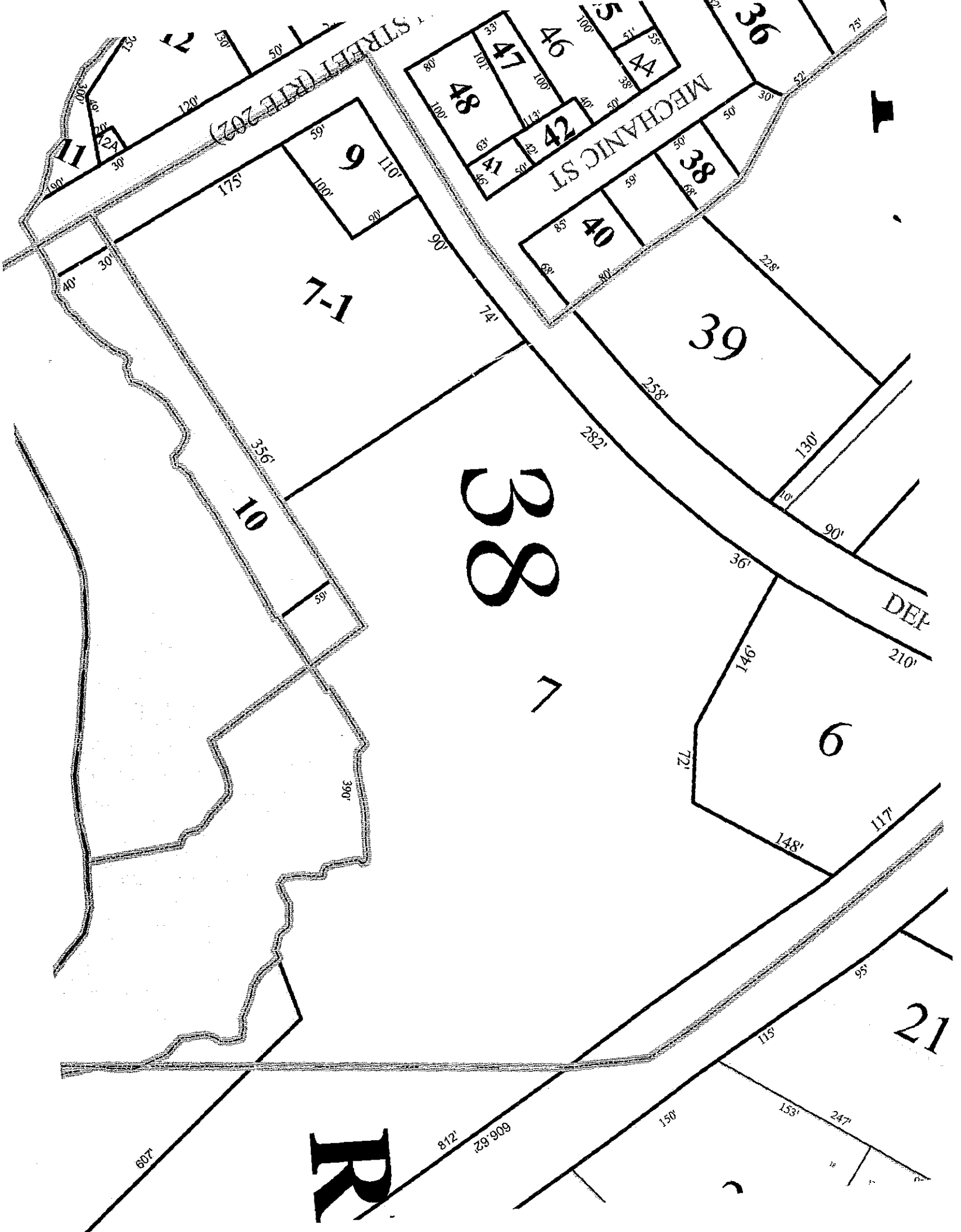
Tel.: (207) 795-6009
Fax: (207) 795-6128
www.summitenv.com

SUMMIT
ENVIRONMENTAL CONSULTANTS

DATE: OCTOBER 2010	DRAWN BY: KRF	SCALE: 1" = 100'
JOB NUMBER: 16989	CHECKED BY: JC/GA	CADD: 16989-5 SITE. DWG

Figure 3

Tax Map


STREET (RTE 202)
MECHANIC ST
DEP
11
24
2
9
7-1
10
38
7
6
21
39
40
38
36
48
47
46
44
42
41
5
30'
120'
50'
175'
110'
100'
90'
74'
356'
59'
390'
40'
228'
258'
282'
130'
36'
146'
72'
148'
117'
95'
115'
150'
153'
247'
812'
606.62'
1,209'
210'
52'
75'

Appendices

Appendix A

Site Photographs

PHOTOGRAPHIC LOG

Client Name:	**Project No.**
TOWN OF WINDHAM	16989.5

Photo No. 1

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of the mill from Depot Street.

Photo No. 2

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of the property from the southern end of the property..

PHOTOGRAPHIC LOG

Client Name:	**Project No.**
TOWN OF WINDHAM	16989.5

Photo No. 3

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

Fuel oil tanks inside the building.

Photo No. 4

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

Area of staining around fuel tanks due to vandalism.

PHOTOGRAPHIC LOG

Client Name:	**Project No.**
TOWN OF WINDHAM	16989.5

Photo No. 5

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

Debris pile located in east end of building.

Photo No. 6

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

Debris pile located on north wall of building..

PHOTOGRAPHIC LOG

Client Name:	**Project No.**
TOWN OF WINDHAM	16989.5

Photo No. 7

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of another debris pile on north wall.

Photo No. 8

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of pit with roof debris and trash.

PHOTOGRAPHIC LOG

Client Name:
TOWN OF WINDHAM

Project No.
16989.5

Photo No. 9

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of debris pile on west end of building.

Photo No. 10

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of staining on the second floor of the west end of building.

PHOTOGRAPHIC LOG

Client Name:	**Project No.**
TOWN OF WINDHAM	16989.5

Photo No. 11

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of the basement, facing east.

Photo No. 12

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

View of debris pile in the basement.

PHOTOGRAPHIC LOG

Client Name: TOWN OF WINDHAM	**Project No.** 16989.5

Photo No. 13

Date:
October 14, 2010

Site Location:
7 Depot Street
Windham, Maine

Description:

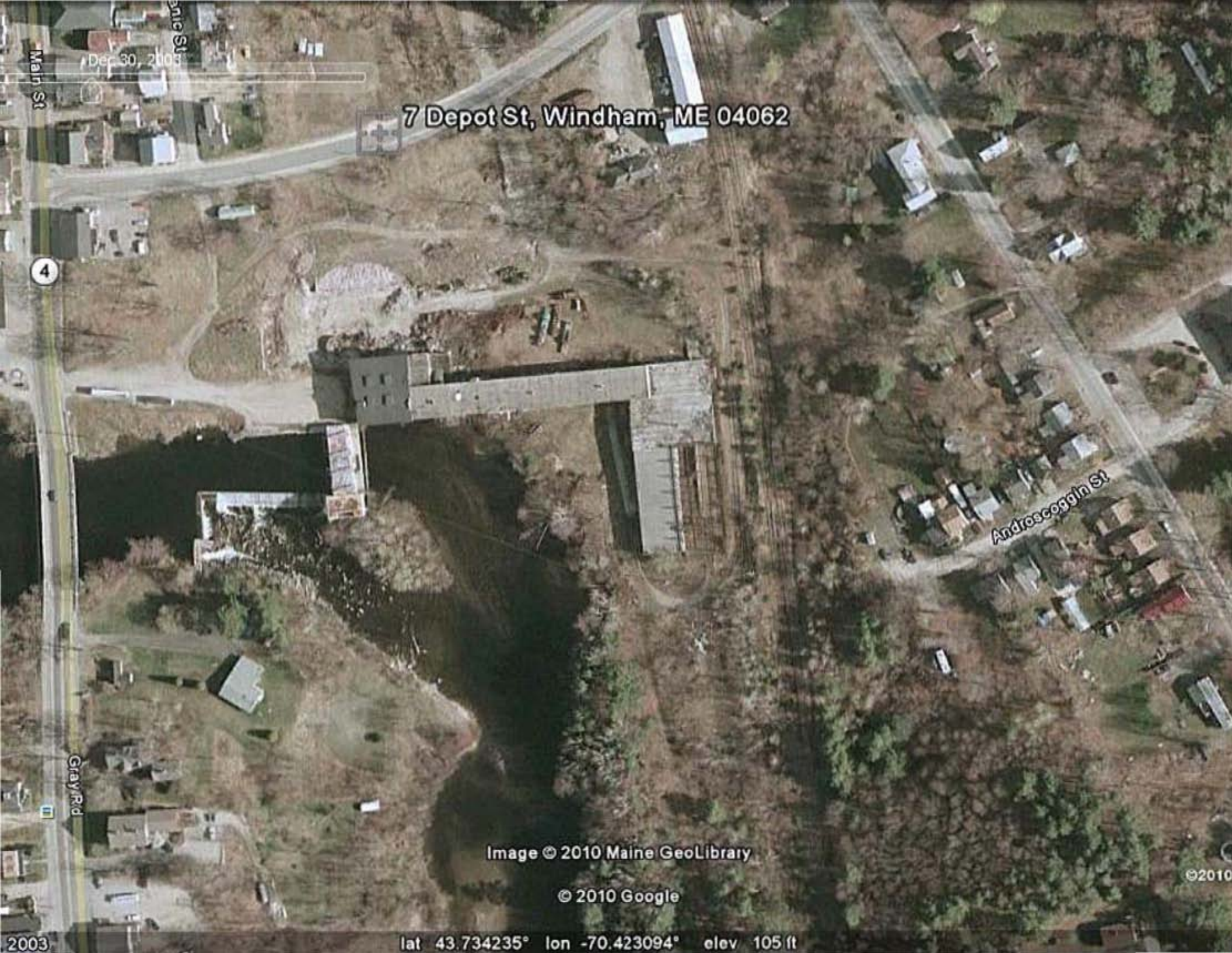
View of debris pile on northwest end of Site building.

Appendix B

Aerial Photographs

Site
KODAK SAFETY FILM
KODAK SAFETY F

7 Depot St, Windham, ME 04062
Main St
4
Gray Rd
Androscoggin St
Image U.S. Geological Survey
© 2010 Google
©2010
, 1998
lat 43.734235° lon -70.423094° elev 105 ft


Dec 30, 2003
Main St
7 Depot St, Windham, ME 04062
4
Androscoggin St
Gray Rd
Image © 2010 Maine GeoLibrary
© 2010 Google
©2010
2003
lat 43.734235° lon -70.423094° elev 105 ft

7 Depot St, Windham, ME 04062
© 2010 Google
©201
43°44'03.92" N 70°25'24.04" W elev 105 ft

Appendix C

Database Search Results

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property: KEDDY MILL

7 DEPOT ST

WINDHAM ME 04062

Job Number: 16989.5

PREPARED FOR:

Summit Environmental

434 Cony Rd.

Augusta, ME. 04330

10-11-10

Tel: (781) 551-0470 *Fax: (781) 551-0471*

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation. All rights reserved.

Environmental FirstSearch
Search Summary Report

Target Site: 7 DEPOT ST
WINDHAM ME 04062

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	08-01-10	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	08-02-10	0.50	0	0	0	0	-	0	0
CERCLIS	Y	08-31-10	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-31-10	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	07-14-10	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	07-14-10	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	07-14-10	0.25	0	1	0	-	-	0	1
Federal Brownfield	Y	10-01-10	0.50	0	0	0	0	-	0	0
ERNS	Y	07-23-10	0.12	0	0	-	-	-	1	1
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	08-02-10	1.00	0	0	0	0	1	1	2
State Spills 90	Y	07-31-10	0.50	0	4	5	15	-	86	110
State Spills 80	Y	06-07-01	0.50	0	0	2	3	-	30	35
State/Tribal SWL	Y	02-09-10	0.50	0	0	0	0	-	38	38
State/Tribal UST/AST	Y	09-01-10	0.25	0	2	4	-	-	9	15
State/Tribal EC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal IC	Y	08-02-10	0.25	0	0	1	-	-	0	1
State/Tribal VCP	Y	08-02-10	0.50	0	1	1	2	-	1	5
State/Tribal Brownfields	Y	08-02-10	0.50	0	0	0	0	-	1	1
Federal IC/EC	Y	08-26-10	0.50	0	0	0	0	-	0	0
- TOTALS -				0	8	13	20	1	168	210

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date:	10-11-10	**Search Type:**	COORD
Requestor Name:	Garth Armstrong	**Job Number:**	16989.5
Standard:	ASTM-05		

Target Site: 7 DEPOT ST
WINDHAM ME 04062

Demographics

Sites:	210	**Non-Geocoded:**	168	**Population:**	NA
Radon:	2.2 - 28.7 PCI/L				

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-70.424121	-70:25:27	**Easting:**	385310.98
Latitude:	43.734691	43:44:5	**Northing:**	4843175.815
Elevation:	109		**Zone:**	19

Comment

Comment: KEDDY MILL PHASE I

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel

Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

TOTAL: 210 **GEOCODED:** 42 **NON GEOCODED:** 168 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	VCP	KEDDY MILL REM01538/VRAP	7 DEPOT ST WINDHAM ME 04062	0.03 NE	+ 6	1
1	SPILLS	FORMER KEDDY MILL P-868-2005	7 DEPOT ST WINDHAM ME 04062	0.03 NE	+ 6	2
2	RCRAGN	NEW ENGLAND ANTIGENICS MED982194102/SGN	16 DEPOT ST WINDHAM ME 04062	0.09 NW	+ 10	3
3	UST	DEPOT ENERGY 18653/REMOVED	13 DEPOT ST WINDHAM ME 04062	0.11 NE	+ 37	4
3	SPILLS	WESTBROOK TRANSMISSION P-296-2005	13 DEPOT ST WINDHAM ME 04062	0.11 NE	+ 37	5
3	SPILLS	ENERGY DEPOT P69693	13 DEPOT ST WINDHAM ME 04062	0.11 NE	+ 37	6
4	SPILLS	SOUTH WINDHAM COMMUNITY CHURCH P71697	15 MAIN ST WINDHAM ME 04062	0.11 NW	+ 23	7
5	UST	SOUTH WINDHAM FIRE STATION 08548/REMOVED	ROUTE 202 WINDHAM ME 04062	0.11 NW	+ 12	8
6	SPILLS	BOMB SHELTER P19398	HIGH ST WINDHAM ME 04062	0.13 SE	+ 60	9
6	SPILLS	EMERGENCY MANAGEMENT BUNKER P71894	22 HIGH ST WINDHAM ME 04062	0.13 SE	+ 60	10
7	SPILLS80	RANDALL RESIDENCE P24688	28 DEPOT ST WINDHAM ME 04062	0.15 NE	+ 57	11
8	UST	DEPOT ENERGY INC 08058/REMOVED	29 DEPOT ST WINDHAM ME 04062	0.16 NE	+ 60	12
9	VCP	L.C. ANDREWS LUMBER MILL REM01216/VRAP	MAIN ST WINDHAM ME 04062	0.17 NE	+ 28	14
9	INSTCONTROL	L.C. ANDREWS LUMBER MILL REM01216/INST CONTROL	MAIN ST WINDHAM ME 04062	0.17 NE	+ 28	14
10	SPILLS	REAL SCHOOL P-375-2002	55 HIGH ST WINDHAM ME	0.18 SE	+ 72	15
11	SPILLS	BILL ESKILSON P-1053-2002	46 HIGH ST WINDHAM ME 04062	0.20 SE	+ 73	16
12	UST	HAWKES GAS STATION 20128/REMOVED	807 GRAY RD GORHAM ME 04038	0.20 SW	+ 15	17
13	SPILLS	SHAUGHNESSY, MICHAEL P72899	32 MAIN ST WINDHAM ME 04062	0.21 NW	+ 35	18
14	SPILLS80	P29088	GORHAM ME 04038	0.22 NW	+ 13	19
15	UST	UNITED STATES POSTAL SERVICE 19043/REMOVED	57 MAIN ST WINDHAM ME 04062	0.24 NW	+ 26	20
16	UST	BLUE SEAL FEEDS INC 04026/REMOVED	43 MAIN ST WINDHAM ME 04062	0.25 NW	+ 22	21

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
17	SPILLS	KELLY COLARUSSO P-771-2006	25 HANNAH DR GORHAM ME 04038	0.33 SW	+ 19	22
18	SPILLS	DEPOT AND RIVER ROAD P58095	WINDHAM ME 04062	0.35 NE	+ 66	23
19	SPILLS	LOUISE SICLANO P-187-2002	720 GRAY RD GORHAM ME 04038	0.37 SW	+ 31	24
20	SPILLS	PIETER VAN EEKELEN P-779-2004	14 PLEASANT ST GORHAM ME 04038	0.37 SW	+ 33	25
21	SPILLS	ROUTE 202 and ROUTE 237 P29497	GORHAM ME 04062	0.44 SW	+ 26	26
21	SPILLS	TANK TRUCK SPILL P87090	RT. 237 and 202 GORHAM ME 04062	0.44 SW	+ 26	27
22	SPILLS80	P63589	GORHAM ME 04038	0.45 SW	+ 29	28
23	VCP	LITTLE FALLS MINI-MART MEVRAP-0404-99/VRAP	688 GRAY RD GORHAM ME 04038	0.46 SW	+ 29	29
23	SPILLS	LITTLE FALLS MINI MART P56093	688 GRAY RT 202 RD GORHAM ME 04038	0.46 SW	+ 29	30
23	SPILLS80	LITTLE FALLS MINI MART P40389	688 GRAY RT 202 RD GORHAM ME 04038	0.46 SW	+ 29	31
23	VCP	LITTLE FALLS MINI-MART REM01039/VRAP	688 GRAY (RTE. 202) RD GORHAM ME 04038	0.46 SW	+ 29	32
23	SPILLS	LAMPRON LIL MART P-381-2004	688 GRAY RD GORHAM ME 04038	0.46 SW	+ 29	33
23	SPILLS	LAMPRONS LITTLE FALLS MINI MART P-566-2007	688 GRAY RD GORHAM ME 04038	0.46 SW	+ 29	34
23	SPILLS	LITTLE FALLS MINI MART P-697-2001	688 GRAY RD., RT. 202 GORHAM ME 04038	0.46 SW	+ 29	35
23	SPILLS	LITTLE FALLS MINI MART (LIL MART) P25791	688 GRAY RT 202 RD GORHAM ME 04038	0.46 SW	+ 29	36
23	SPILLS	LITTLE FALLS MINI MART GULF P-1015-2002	688 GRAY RD GORHAM ME 04038	0.46 SW	+ 29	37
24	SPILLS	LITTLE FALLS MOBIL P-278-2005	20 MOSHER RD GORHAM ME 04038	0.49 SE	+ 13	38
24	SPILLS	LAMPRON ENERGY P-584-2003	20 MOSHER RD GORHAM ME 04038	0.49 SE	+ 13	39
24	SPILLS	LITTLE FALLS MOBIL P20599	20 MOSHER RT. 202 RD GORHAM ME 04062	0.49 SE	+ 13	40
25	SPILLS80	KIMBALL S MOBIL P42889	20 MOSHER (RT 237) RD GORHAM ME 04062	0.49 SW	+ 21	41

Environmental FirstSearch
Sites Summary Report

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KEDDY MILL PHASE I

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
26	STATE	MAINE CORRECTIONAL CENTER ME387/REFERRED TO OTHER PR	0 RIVER RD WINDHAM ME 04062	0.73 SE	- 9	43

Environmental FirstSearch
Sites Summary Report

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	MYSTERY P-144-1999	CHAFFIN POND WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MMP AUTO P-301-2004	RTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MYSTERY P32396	SWAN RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MVA P4501	VISTA DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MOTOR VEHICLE ACCIDENT P-429-2001	RTE 302 and WHITES BRIDGE R WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MYSTERY P14499	CHAFFIN POND WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MAUREEN DEAN P-472-2004	11 BURDEEN RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MARSTON REDEMPTION P-605-2006	968 ROOSEVELT DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	LUCAS P-1069-2006	4 LAND OF NOD RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MYSTERY P1210	BROWN COVE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	JOHN SMITH P-49-2004	38 SNOWY RIDGE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	PAULIN MOORE P-766-2003	74 SNOWY HILL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	JEANNIE SIMS P-232-2003	338 S MAIN ST WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	HOME DEPOT P-759-2006	UNITED STATES HIGHWAY 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	KEENAN RESIDENCE P-303-2006	631 GRAY ROAD WINDHAM ME	NON GC	N/A	N/A
	SPILLS	PET QUARTERS P-936-2006	NORTH WINDHAM SHOPPING PLAZ WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	BELANGER GARAGE P-787-2006	RIVER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	HARRY PAYTON P73492	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	POLE 3 P-384-2003	ROOSEVELT TRL WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	POLE 12 P-441-2008	PAGE RD WINDHAM ME 04062	NON GC	N/A	N/A

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KEDDY MILL PHASE I

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	SPILLS	PIKE INDUSTRIES PIT P-780-2006	VARNEY MILL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	NYNEX P41294	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	PETTENGILL POND P-736-2002	EAGLE DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MYSTERY DRUM DUMPING P60198	WHITES BRIDGE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	PENSKE VEHICLE P-192-2003	RTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	OTTER BROOK P31697	WINDHAM CENTER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	NO. WINDHAM CAR WASH-MOBIL P39792	RT. 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	NEW RESIDENCE P14398	COLBY (NO NUMBER) DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	NEAR AMHI P8998	END OF SMITH RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	MYSTERY GASOLINE DISCHARGE P-324-2007	809-828 GRAY RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	PHILIP AFTHIM P-194-2008	22 PHEASANT RIDGE DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ATLAS AUTOBODY, JUNKYARD P7510	ANTHION (OFF RT. 302) RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	BROWN S COVE P-619-2006	RIGHT OF WAY WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CENTRAL MAINE POWER P-209-2007	WEBB RD, POLE 18 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	PRESUMPSCOT RIVER P51899	PLEASANT RIVER WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	BETTY MCLEOD P-882-2007	7 CARRIAGE HILL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	RICHARDSONS BOAT YARD - VEHICLE P-556-1999	RTE 302 and WHITES BRIDGE R WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP - PAD 5 P-198-2005	WOLD BROOK RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	AUTO ACCIDENT P-848-2002	MAIN AREA, PRESUMPSCOT RIVE WINDHAM ME	NON GC	N/A	N/A
	SPILLS	CMP - POLE 11 P-237-2001	FINLEY RD WINDHAM ME 04062	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

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WINDHAM ME 04062

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KEDDY MILL PHASE I

TOTAL: 210 **GEOCODED:** 42 **NON GEOCODED:** 168 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	ATLAS AUTOBODY P-443-2003	ANTHOINE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ALONG ROADWAY P66298	ROUTE 115 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ALFRED WAXLER P-702-2006	BETTY LN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	3 TRANSFORMERS POLE 19.2 P7230	HIGH ST WINDHAM ME 04062	NON GC	N/A	N/A
	STATE	WINDHAM WELDING ME389/NO FURTHER ACTION	ROUTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	ERNS	POLE 4.2 BRICK HILL ROAD NRC-891066/FIXED	POLE 4.2 BRICK HILL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	AUTO ACCIDENT P-882-2003	RTE 115 and RTE 202 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP POLE 17 P80399	WHITES BRIDGE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	GASO. SPILL P57593	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	FOSTER, ROBERT P62297	35 FOREST LAKE RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ELLIS PROPERTY P-915-2006	30 HARVEST HILL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ELDER BRUCE P8951	RIVER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CONNOR, JOHN P7261	3 PETTENGIL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CHRISTOPHER RICH - VEHICLE P-450-2001	VISTA DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	COLLINS POND P78999	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	GETTY 28226 P-801-2006	663 ROOSEVELT TRAIL, RT 302 WINDHAM ME	NON GC	N/A	N/A
	SPILLS	CMP POLE 79 P82696	NORTH WINDHAM RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP POLE 172 P-872-2007	UNITED STATES HIGHWAY 202 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP - TRANSFORMER 5 P-190-2005	WOLDBROOK DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP - POLE 22 P-1138-2003	SWETT RD WINDHAM ME 04062	NON GC	N/A	N/A

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	CMP - POLE 180.1 P-897-2004	ROOSEVELT TRL WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CMP - POLE 17 P-404-2006	ANDERSON ST WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	CONNELY, PATRICK P94499	30 PINECREST DR WINDHAM ME 04062	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-006443/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SPILLS	POLE 3 P-843-2006	HILLSIDE DR WINDHAM ME 04062	NON GC	N/A	N/A
	SWL	SD WARREN CO S-010018/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-010019/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-010043/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-020036/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006547/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006531/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006486/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-002764/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-007719/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-008924/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-007717/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-007112/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-020505/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-021484/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-006127/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SWL	MAINE DEPT OF TRANSPORTATION S-022146/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	DEPT OF CORRECTIONS S-021067/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	DEPT OF CORRECTIONS S-021363/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	DEPT OF CORRECTIONS S-004788/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	D and R EXCAVATING CO INC S-009131/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	CR TANDBERG INC S-021969/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	APC PAPER CO MESW-1106-56791/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SPILLS80	P31685	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SWL	PORTLAND WATER DIST S-020018/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-04062	UNKNOWN ME 04062	NON GC	N/A	N/A
	UST	MCCRORY STORE 77 02961/REMOVED	RT 302 WINDHAM ME 04062	NON GC	N/A	N/A
	UST	MARINERS RESTUARANT INC 20500/REMOVED	WHIPPLE RD WINDHAM ME 04062	NON GC	N/A	N/A
	UST	CR TANDBERG INC 01487/REMOVED	GRAY RT 115 RD WINDHAM ME 04062	NON GC	N/A	N/A
	SWL	WINDHAM, TOWN OF MESW-333/TRANSFER	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SOUTH PORTLAND WWTP S-021542/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SOUTH PORTLAND WWTP S-007115/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SOUTH PORTLAND WWTP S-006562/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006021/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006020/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006015/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A

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	SWL	SD WARREN CO S-010001/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	VCP	L C ANDREWS LUMBER MILL MEVRAP-0404-262/VRAP	MAIN ST WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P26387	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	BROWNFIELD	WINDHAM WELDING REM00909/IN REVIEW	RTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	UST	WINDHAM INCINERATOR 08552/REMOVED	ROUT 302 WINDHAM ME 04062	NON GC	N/A	N/A
	UST	SCLAR, STANLEY 14240/REMOVED	LAKESIDE PARK WINDHAM ME 04062	NON GC	N/A	N/A
	UST	ROGERS, M 14871/REMOVED	32 WHITE POINT RD WINDHAM ME 04062	NON GC	N/A	N/A
	UST	REQUETBALL INTERNATIONAL 20280/REMOVED	RT 302 WINDHAM ME 04062	NON GC	N/A	N/A
	UST	PORCH, HERBERT M 11347/REMOVED	LAKE AVE WINDHAM ME 04062	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006487/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006540/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006570/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006586/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-007111/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SWL	SD WARREN CO S-006482/LICENSED	UNKNOWN WINDHAM ME	NON GC	N/A	N/A
	SPILLS	TRUCK LEAK P65992	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	P60491	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	P-300-2003	RTE 302 W WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	P20893	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	P1991	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A

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	SPILLS	P28990	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	WINDHAM ELECTRIC P5491	ROUTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	WHITLEY, ALICE P-68-1990	JOHNSON RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	WEBBER ENERGY P-203-2003	415 MAIN ST WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	WEBB ROAD P9098	SIDE OF RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	WALMART P-472-2007	ROOSEVELT TRL WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P51389	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	TRUCK LEAK P12691	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	GASO. SPILL P13186	COMMERCIAL PROPERTY WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	TRAVEL LANE OF P-806-2007	NEWHALL RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	TRANFORMER OIL SPILL P24690	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	TOWN OF WINDHAM P20694	DEPOT ST WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	THERESA FOSTER VEHICLE P-1083-2004	RIVER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	SHOULDER OF P-993-2006	VARNEY MILL RD and ROOSEVEL WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	SHOP N SAVE PLAZA P601	RT 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	SHAWS PARKING LOT P-705-2006	UNITED STATES HIGHWAY 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	SECORD RESIDENSE P42698	587 N RIVER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	SEBEGO LAKE GARAGE P34391	RT. 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ROBERT SHAW P-1035-2006	9 GRASSINGTON RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS	ROBERT BULLERWELL P-743-2007	61 PETTINGILL POND RD WINDHAM ME 04062	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

TOTAL: 210 **GEOCODED:** 42 **NON GEOCODED:** 168 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	TRUCK SPILL NORTH AMERICAN VAN LIN P43897	RT 302 and VARNEY MILL WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	ROGERS RESIDENCE P37688	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	UST	MDOT RIGHT OF WAY 20888/REMOVED	RTE 302 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P90185	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P8684	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P9687	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P5089	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P6785	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P13983	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	P18987	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	TRANSFORMER OIL SPILL P26086	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	THORNE PROP. P1187	PILGRIM RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	TANK TRUCK LEAK P4983	NORTH WINDHAM WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	AUTO LEAK P44287	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	SFERES RESIDENCE P23187	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	CARRON RESIDENCE P7684	VISTA DR WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	ROGERS RESIDENCE P36788	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	OIL INVESTIGATION P13788	RIVER RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	MYSTERY WASTE OIL SPILL P46588	NORTH WINDHAM WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	MYSTERY GASO. SPILL P27884	NORTH WINDHAM WINDHAM ME 04062	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

TOTAL: 210 **GEOCODED:** 42 **NON GEOCODED:** 168 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS80	MOUGALIAN and SAYADORF P40489	RT. 032 WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	MLT MANAGEMENT PROP. P45888	NORTH WINDHAM WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	MAYBERRY RESIDENCE P12385	SANDBAR RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	HENNESEY RESIDENCE P3182	SANDBAR RD WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	HEATING OIL SPILL P46286	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	GUICCININO RESIDENCE P3283	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	 P50189	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A
	SPILLS80	SOUTH WINDHAM P46386	UNKNOWN WINDHAM ME 04062	NON GC	N/A	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

VCP

SEARCH ID: 38 **DIST/DIR:** 0.03 NE **ELEVATION:** 115 **MAP ID:** 1

NAME: KEDDY MILL
ADDRESS: 7 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 8/2/10
ID1: REM01538
ID2:
STATUS: VRAP
PHONE:

SITE INFORMATION

PROGRAM: VRAP
STATUS: REMEDIATION NEEDED
INSTITUTIONAL CONTROL: UNKNOWN

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 8 **DIST/DIR:** 0.03 NE **ELEVATION:** 115 **MAP ID:** 1

NAME: FORMER KEDDY MILL
ADDRESS: 7 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-868-2005
ID2: P-868-2005
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	07/05/2005
SPILL TYPE:	HAZARDOUS MATERIAL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	PCB OIL
PRODUCT AMOUNT:	35 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	ENVIRON
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	BUSINESS - INDUSTRIAL
SOURCE:	UTILITY - ELECTRICAL TRANSFORMER
SPILL CAUSE:	DISCHARGE - VANDALISM

TANK INFORMATION

TYPE TANK INVOLVED:	NONE
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

RCRAGN

SEARCH ID: 1 **DIST/DIR:** 0.09 NW **ELEVATION:** 119 **MAP ID:** 2

NAME: NEW ENGLAND ANTIGENICS
ADDRESS: 16 DEPOT ST
SOUTH WINDHAM ME 04082
CUMBERLAND
CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: MED982194102
ID2:
STATUS: SGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: ELIOT H STANLEY
PO BOX 1822
PORTLAND ME 041041822

PHONE: 2078927900

UNIVERSE INFORMATION:

NAIC INFORMATION

325412 - PHARMACEUTICAL PREPARATION MANUFACTURING

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

2-Propanone (I) (OR) Acetone (I)

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 33 **DIST/DIR:** 0.11 NE **ELEVATION:** 146 **MAP ID:** 3

NAME: DEPOT ENERGY
ADDRESS: 13 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 18653
ID2: 18653
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION

OWNER NAME:	LASKEY, MERRILL
OWNER ADDRESS:	68 HIGH ST WINDHAM ME 04062
OWNER PHONE:	
TOTAL NUMBER OF TANKS:	1
TANK ID:	1
TANK STATUS:	REMOVED
TANK STATUS DATE:	10/01/1993
TANK INSTALLED DATE:	01/01/1988
PRODUCT STORED:	UNLEADED GASOLINE
TANK CAPACITY:	500 GALLONS
MATERIAL CODE:	
TANK LEAK DETECTION:	UNKNOWN
FED REGULATED:	Y
PIPE LEAK DETECTION:	UNKNOWN
PIPE ABOVE/BELOW:	BELOWGROUND
OVERFILL PROTECTION:	UNKNOWN
ON AQUIFER:	N
NEAR PRIVATE WATER:	N
NEAR PUBLIC WATER:	N
NEARBY WATER OTHER OWNER:	N

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 26 **DIST/DIR:** 0.11 NE **ELEVATION:** 146 **MAP ID:** 3

NAME: WESTBROOK TRANSMISSION
ADDRESS: 13 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-296-2005
ID2: P-296-2005
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:
REPORT DATE: 04/19/2005
SPILL TYPE: OIL INCIDENT
SPILL OFFICE: PORTLAND
DESCRIPTION

PRODUCT SPILLED: SULFURIC ACID
PRODUCT AMOUNT:
AMOUNT QUALIFIER: UNKNOWN

PRODUCT SPILLED: WASTE OIL/USED MOTOR OIL
PRODUCT AMOUNT:
AMOUNT QUALIFIER: UNKNOWN

FURTHER RESPONSE: FALSE
NUM WELLS IMPACTED: 0
NUM WELLS AT RISK: 0
DTREE COMPLETED: FALSE
DTREE DATE:
DTREE VALUE:
DISPOSAL INFO:
REPORTER TYPE: OTHER INVOLVED PARTY
DETECTION METHOD: VISUAL PRODUCT
LOCATION: BUSINESS - COMMERCIAL
SOURCE: OTHER SOURCE
SPILL CAUSE: ACCIDENT - HUMAN ERROR

TANK INFORMATION

TYPE TANK INVOLVED: UNDERGROUND TANK(S) INVOLVED
TANK REMOVED: FALSE
REGISTERED UST: FALSE
TANK SITE NUMBER:
TANK NUMBER:
AST INSIDE:

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 7 **DIST/DIR:** 0.11 NE **ELEVATION:** 146 **MAP ID:** 3

NAME: ENERGY DEPOT
ADDRESS: 13 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P69693
ID2: P-696-1993
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	10/28/1993
REPORT DATE:	10/28/1993
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	LEADED GASOLINE
PRODUCT AMOUNT:	0 GALS.
AMOUNT QUALIFIER:	ACTUAL
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	
NUM WELLS AT RISK:	
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	TANK AND/OR PIPING REMOVAL
LOCATION:	BUSINESS - COMMERCIAL
SOURCE:	
SPILL CAUSE:	OVERFILL

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	FALSE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 24 **DIST/DIR:** 0.11 NW **ELEVATION:** 132 **MAP ID:** 4

NAME: SOUTH WINDHAM COMMUNITY CHURCH
ADDRESS: 15 MAIN ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P71697
ID2: P-716-1997
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	11/25/1997
REPORT DATE:	11/25/1997
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	1 FUEL OIL - KEROSENE
PRODUCT AMOUNT:	30 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	WASTE TO MID MAINE WASTE ACTION CORP.
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	OTHER - RELIGIOUS
SOURCE:	
SPILL CAUSE:	MECHANICAL FAILURE - VALVE

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	FALSE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 36 **DIST/DIR:** 0.11 NW **ELEVATION:** 121 **MAP ID:** 5

NAME: SOUTH WINDHAM FIRE STATION
ADDRESS: ROUTE 202
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 08548
ID2: 8548
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION

OWNER NAME: WINDHAM TOWN OF
OWNER ADDRESS: 8 SCHOOL RD
WINDHAM ME 04062
OWNER PHONE:

TOTAL NUMBER OF TANKS: 1

TANK ID: 1
TANK STATUS: REMOVED
TANK STATUS DATE: 11/27/1995
TANK INSTALLED DATE: 01/01/1960
PRODUCT STORED: 2 FUEL OIL

TANK CAPACITY: 1000 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: UNKNOWN
FED REGULATED: N

PIPE LEAK DETECTION: UNKNOWN
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: UNKNOWN

ON AQUIFER: N
NEAR PRIVATE WATER: N
NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 4 **DIST/DIR:** 0.13 SE **ELEVATION:** 169 **MAP ID:** 6

NAME: BOMB SHELTER
ADDRESS: HIGH ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P19398
ID2: P-193-1998
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE: 05/11/1998
REPORT DATE: 05/11/1998
SPILL TYPE: OIL INCIDENT
SPILL OFFICE: PORTLAND
DESCRIPTION

PRODUCT SPILLED: 2 FUEL OIL
PRODUCT AMOUNT: 50 GALS.
AMOUNT QUALIFIER: ESTIMATE

FURTHER RESPONSE: FALSE
NUM WELLS IMPACTED: 0
NUM WELLS AT RISK: 0
DTREE COMPLETED: FALSE
DTREE DATE:
DTREE VALUE:
DISPOSAL INFO:
REPORTER TYPE: SUBJECT/SPILLER
DETECTION METHOD: VISUAL PRODUCT
LOCATION: GOVERNMENT - LOCAL
SOURCE:
SPILL CAUSE: ACCIDENT - PHYSICAL BREAKAGE

TANK INFORMATION

TYPE TANK INVOLVED: ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED: FALSE
REGISTERED UST: FALSE
TANK SITE NUMBER:
TANK NUMBER:
AST INSIDE: FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 6 **DIST/DIR:** 0.13 SE **ELEVATION:** 169 **MAP ID:** 6

NAME: EMERGENCY MANAGEMENT BUNKER
ADDRESS: 22 HIGH ST
WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P71894
ID2: P-718-1994
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	11/16/1994
SPILL TYPE:	NON-OIL, NON-HAZARDOUS INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	NONE
PRODUCT AMOUNT:	0 GALS.
AMOUNT QUALIFIER:	ACTUAL
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	2
NUM WELLS AT RISK:	1
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	TANK AND/OR PIPING REMOVAL
LOCATION:	GOVERNMENT, MUNICIPAL OR RELIGIOUS FACILITY
SOURCE:	
SPILL CAUSE:	OTHER - NO CAUSE

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	24
TANK NUMBER:	1
AST INSIDE:	FALSE
TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	24
TANK NUMBER:	2
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 29 **DIST/DIR:** 0.15 NE **ELEVATION:** 166 **MAP ID:** 7

NAME: RANDALL RESIDENCE
ADDRESS: 28 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE:

REV: 6/07/01
ID1: P24688
ID2:
STATUS:
PHONE:

NOTIFIER: HANSON, BECKY
NOTIFIER S ADDRESS: DIXON BROS. OIL CO.
GORHAM ME 04038
NOTIFIER PHONE: 2078393311

DATE OF RELEASE:
CAUSE OF SPILL: PIPING OR HOSING FAILURE
METHOD OF SPILL DETECTION: CITIZEN COMPLAINT - OTHER
PRODUCT REPORTED SPILLED: 2 FUEL OIL
ACTUAL PRODUCT SPILLED: 2 FUEL OIL
AMOUNT SPILLED: 250
UNITS: G
SPILL SOURCE: RESIDENTIAL- SINGLE FAMILY
MEDIUM AFFECTED: GROUNDWATER
TANKS INVOLVED:
NUMBER OF WELLS AT RISK: 1
NUMBER OF WELLS IMPACTED: 0

METHOD OF SPILL RECOVERY: VACUUM TRUCKS
AMOUNT OF PRODUCT RECOVERED: 250 G

SPILL INVESTIGATED BY: DUNLAP, JOHN
SPILL INVESTIGATED BY: GORDON, JOHN

TANK INFORMATION:

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 34 **DIST/DIR:** 0.16 NE **ELEVATION:** 169 **MAP ID:** 8

NAME: DEPOT ENERGY INC
ADDRESS: 29 DEPOT ST
WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 08058
ID2: 8058
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION
OWNER NAME: LASKEY, MERRILL
OWNER ADDRESS: 68 HIGH ST
WINDHAM ME 04062
OWNER PHONE:

TOTAL NUMBER OF TANKS: 2

TANK ID: 1
TANK STATUS: REMOVED
TANK STATUS DATE: 10/28/1993
TANK INSTALLED DATE: 08/01/1983
PRODUCT STORED: REGULAR GASOLINE

TANK CAPACITY: 550 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: SIA_INVENTORY_ANALYSIS
FED REGULATED: Y

PIPE LEAK DETECTION: SIA_INVENTORY_ANALYSIS
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: UNKNOWN

ON AQUIFER: N
NEAR PRIVATE WATER: N
NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

TANK ID: 2
TANK STATUS: REMOVED
TANK STATUS DATE: 09/01/1989
TANK INSTALLED DATE: 10/01/1969
PRODUCT STORED: UNKNOWN SUBSTANCE

TANK CAPACITY: 3000 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: UNKNOWN
FED REGULATED: N

PIPE LEAK DETECTION: UNKNOWN
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: UNKNOWN

ON AQUIFER: N
NEAR PRIVATE WATER: N

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 34 **DIST/DIR:** 0.16 NE **ELEVATION:** 169 **MAP ID:** 8

NAME: DEPOT ENERGY INC
ADDRESS: 29 DEPOT ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 08058
ID2: 8058
STATUS: REMOVED
PHONE:

NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

VCP

SEARCH ID: 39 **DIST/DIR:** 0.17 NE **ELEVATION:** 137 **MAP ID:** 9

NAME: L.C. ANDREWS LUMBER MILL
ADDRESS: MAIN ST
WINDHAM ME
CUMBERLAND
CONTACT:
SOURCE: ME DEP

REV: 8/2/10
ID1: REM01216
ID2:
STATUS: VRAP
PHONE:

SITE INFORMATION

PROGRAM: VRAP
STATUS: NO FURTHER ACTION
INSTITUTIONAL CONTROL: TRUE

INSTCONTROL

SEARCH ID: 42 **DIST/DIR:** 0.17 NE **ELEVATION:** 137 **MAP ID:** 9

NAME: L.C. ANDREWS LUMBER MILL
ADDRESS: MAIN ST
WINDHAM ME
CUMBERLAND
CONTACT:
SOURCE: ME DEP

REV: 8/2/10
ID1: REM01216
ID2: REM01216
STATUS: INST CONTROL
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION
PROGRAM: VRAP
INSTITUTIONAL CONTROLS: TRUE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 21 **DIST/DIR:** 0.18 SE **ELEVATION:** 181 **MAP ID:** 10

NAME: REAL SCHOOL
ADDRESS: 55 HIGH ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-375-2002
ID2: P-375-2002
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	05/17/2002
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	5 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	BY C N BROWN
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	SCHOOL - PUBLIC
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	OTHER - UNKNOWN

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	TRUE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 3 **DIST/DIR:** 0.20 SE **ELEVATION:** 182 **MAP ID:** 11

NAME: BILL ESKILSON
ADDRESS: 46 HIGH ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-1053-2002
ID2: P-1053-2002
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	04/03/2002
REPORT DATE:	04/03/2002
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	.12 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	SORBENTS ENTERED INTO DOWNEAST ENERGY WASTE STREAM.
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	RESIDENTIAL - SINGLE FAMILY
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	MECHANICAL FAILURE - LOOSE FITTING

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	FALSE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	TRUE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 35 **DIST/DIR:** 0.20 SW **ELEVATION:** 124 **MAP ID:** 12

NAME: HAWKES GAS STATION
ADDRESS: 807 GRAY RD
GORHAM ME
CUMBERLAND
CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 20128
ID2: 20128
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION

OWNER NAME: GREER, THOMAS S
OWNER ADDRESS: 2 BLOCKHOUSE RD
GORHAM ME 04038
OWNER PHONE:

TOTAL NUMBER OF TANKS: 1

TANK ID: 1
TANK STATUS: REMOVED
TANK STATUS DATE: 04/12/1999
TANK INSTALLED DATE: 10/01/1947
PRODUCT STORED: GASOLINE UNSPECIFIED

TANK CAPACITY: 1000 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: UNKNOWN
FED REGULATED: Y

PIPE LEAK DETECTION: UNKNOWN
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: NONE

ON AQUIFER: N
NEAR PRIVATE WATER: N
NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 23 **DIST/DIR:** 0.21 NW **ELEVATION:** 144 **MAP ID:** 13

NAME: SHAUGHNESSY, MICHAEL
ADDRESS: 32 MAIN ST
WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P72899
ID2: P-728-1999
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	10/08/1999
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	50 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	CONTAMINATED SOIL TO COMMERCIAL RECYCLING.
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	RESIDENTIAL - SINGLE FAMILY
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	CORROSION - PIPING

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	FALSE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 30 **DIST/DIR:** 0.22 NW **ELEVATION:** 122 **MAP ID:** 14

NAME:
ADDRESS:
GORHAM ME
CONTACT:
SOURCE:

REV: 6/07/01
ID1: P29088
ID2:
STATUS:
PHONE:

NOTIFIER: PETTIT, EDWARD/UNION OIL
NOTIFIER S ADDRESS: 63 OCEAN STREET
SOUTH PORTLAND ME 04106
NOTIFIER PHONE:

DATE OF RELEASE: 02-NOV-1988
CAUSE OF SPILL: OVERFILL (TANK OR VESSEL)
METHOD OF SPILL DETECTION: SPILLER - OTHER
PRODUCT REPORTED SPILLED: 1 FUEL OIL - KEROSENE
ACTUAL PRODUCT SPILLED: 1 FUEL OIL - KEROSENE
AMOUNT SPILLED: 5
UNITS: G
SPILL SOURCE: RESIDENTIAL- SINGLE FAMILY
MEDIUM AFFECTED: LAND
TANKS INVOLVED:
NUMBER OF WELLS AT RISK: 0
NUMBER OF WELLS IMPACTED: 0

METHOD OF SPILL RECOVERY: SORBENTS
AMOUNT OF PRODUCT RECOVERED: 3 G

SPILL INVESTIGATED BY: GORDON, JOHN

TANK INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 37 **DIST/DIR:** 0.24 NW **ELEVATION:** 135 **MAP ID:** 15

NAME: UNITED STATES POSTAL SERVICE
ADDRESS: 57 MAIN ST
SOUTH WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 19043
ID2: 19043
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION
OWNER NAME: ESTEY, CLYDE
OWNER ADDRESS: 22 SADLER DR
BRUNSWICK ME 04011
OWNER PHONE:

TOTAL NUMBER OF TANKS: 1

TANK ID: 1
TANK STATUS: REMOVED
TANK STATUS DATE: 06/15/1995
TANK INSTALLED DATE: 01/01/1969
PRODUCT STORED: 2 FUEL OIL

TANK CAPACITY: 1500 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: UNKNOWN
FED REGULATED: N

PIPE LEAK DETECTION: UNKNOWN
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: UNKNOWN

ON AQUIFER: N
NEAR PRIVATE WATER: N
NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

UST

SEARCH ID: 32 **DIST/DIR:** 0.25 NW **ELEVATION:** 131 **MAP ID:** 16

NAME: BLUE SEAL FEEDS INC
ADDRESS: 43 MAIN ST
WINDHAM ME

CONTACT:
SOURCE: ME DEP

REV: 9/1/10
ID1: 04026
ID2: 4026
STATUS: REMOVED
PHONE:

SITE INFORMATION

OWNER INFORMATION

OWNER NAME: BLUE SEAL FEEDS INC
OWNER ADDRESS: PO BOX 8000
LONDONDERRY NH 03053
OWNER PHONE:

TOTAL NUMBER OF TANKS: 1

TANK ID: 1
TANK STATUS: REMOVED
TANK STATUS DATE: 10/01/1989
TANK INSTALLED DATE: 06/01/1980
PRODUCT STORED: 2 FUEL OIL

TANK CAPACITY: 275 GALLONS
MATERIAL CODE:
TANK LEAK DETECTION: UNKNOWN
FED REGULATED: N

PIPE LEAK DETECTION: UNKNOWN
PIPE ABOVE/BELOW: BELOWGROUND
OVERFILL PROTECTION: UNKNOWN

ON AQUIFER: N
NEAR PRIVATE WATER: N
NEAR PUBLIC WATER: N
NEARBY WATER OTHER OWNER: N

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 9 **DIST/DIR:** 0.33 SW **ELEVATION:** 128 **MAP ID:** 17

NAME: KELLY COLARUSSO
ADDRESS: 25 HANNAH DR
GORHAM ME
CUMBERLAND
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-771-2006
ID2: P-771-2006
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	09/22/2006
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	.5 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	CONTAMINATED MATERIALS TO BE DISPOSED OF APPROPRIATELY.
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	RESIDENTIAL - SINGLE FAMILY
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	OTHER - KNOWN CAUSE

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	TRUE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 5 **DIST/DIR:** 0.35 NE **ELEVATION:** 175 **MAP ID:** 18

NAME: DEPOT AND RIVER ROAD
ADDRESS:
WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P58095
ID2: P-580-1995
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	10/02/1995
REPORT DATE:	10/02/1995
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	DIESEL
PRODUCT AMOUNT:	10 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	
REPORTER TYPE:	PUBLIC OFFICIAL
DETECTION METHOD:	OTHER
LOCATION:	TRANSPORTATION - ROAD
SOURCE:	
SPILL CAUSE:	ACCIDENT - TRANSPORTATION

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 19 **DIST/DIR:** 0.37 SW **ELEVATION:** 140 **MAP ID:** 19

NAME: LOUISE SICLANO
ADDRESS: 720 GRAY RD
GORHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-187-2002
ID2: P-187-2002
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	03/13/2002
REPORT DATE:	03/13/2002
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	20 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	GUERIN
REPORTER TYPE:	CITIZEN COMPLAINT
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	RESIDENTIAL - SINGLE FAMILY
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	CORROSION - TANK

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 20 **DIST/DIR:** 0.37 SW **ELEVATION:** 142 **MAP ID:** 20

NAME: PIETER VAN EEKELEN
ADDRESS: 14 PLEASANT ST
GORHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-779-2004
ID2: P-779-2004
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	09/11/2004
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	2 FUEL OIL
PRODUCT AMOUNT:	200 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	ALL WASTE BROUGHT TO COMMERCIAL PAVING
REPORTER TYPE:	OTHER INVOLVED PARTY
DETECTION METHOD:	ODOR/VAPOR/MIST
LOCATION:	RESIDENTIAL - MULTI FAMILY
SOURCE:	STORAGE UNIT - ABOVEGROUND STORAGE TANK
SPILL CAUSE:	MECHANICAL FAILURE - LOOSE FITTING

TANK INFORMATION

TYPE TANK INVOLVED:	ABOVE GROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	FALSE
TANK SITE NUMBER:	
TANK NUMBER:	
AST INSIDE:	TRUE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 22 **DIST/DIR:** 0.44 SW **ELEVATION:** 135 **MAP ID:** 21

NAME: ROUTE 202 and ROUTE 237
ADDRESS:
GORHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P29497
ID2: P-294-1997
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	06/02/1997
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	GASOLINE UNSPECIFIED
PRODUCT AMOUNT:	UNKNOWN
AMOUNT QUALIFIER:	UNKNOWN
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	DIRT TO COMMERCIAL PAVING
REPORTER TYPE:	PUBLIC OFFICIAL
DETECTION METHOD:	ODOR/VAPOR/MIST
LOCATION:	OTHER - MYSTERY
SOURCE:	
SPILL CAUSE:	OTHER - UNKNOWN

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 25 **DIST/DIR:** 0.44 SW **ELEVATION:** 135 **MAP ID:** 21

NAME: TANK TRUCK SPILL
ADDRESS: RT. 237 and 202
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P87090
ID2: P-870-1990
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	12/12/1990
REPORT DATE:	12/12/1990
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	NONE
PRODUCT AMOUNT:	25 GALS.
AMOUNT QUALIFIER:	ACTUAL
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	ROAD SANDED
REPORTER TYPE:	PUBLIC OFFICIAL
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	TRANSPORTATION - ROAD
SOURCE:	
SPILL CAUSE:	MECHANICAL FAILURE - PIPING/HOSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 31 **DIST/DIR:** 0.45 SW **ELEVATION:** 138 **MAP ID:** 22

NAME:
ADDRESS:
GORHAM ME
CONTACT:
SOURCE:

REV: 6/07/01
ID1: P63589
ID2:
STATUS:
PHONE:

NOTIFIER: GORHAM PUBLIC SAFETY DISPAT.
NOTIFIER S ADDRESS:

NOTIFIER PHONE: 2078395581

DATE OF RELEASE: 03-OCT-1989
CAUSE OF SPILL: ACCIDENT OTHER
METHOD OF SPILL DETECTION: PUBLIC OFFICIAL - OTHER
PRODUCT REPORTED SPILLED: NON-HAZARDOUS CHEMICAL UNSPECIFIED
ACTUAL PRODUCT SPILLED: NON-HAZARDOUS CHEMICAL UNSPECIFIED
AMOUNT SPILLED: 55
UNITS: G
SPILL SOURCE: TRANSPORTATION- TRUCK
MEDIUM AFFECTED: LAND
TANKS INVOLVED:
NUMBER OF WELLS AT RISK: 0
NUMBER OF WELLS IMPACTED: 0

METHOD OF SPILL RECOVERY: SKIMMERS
AMOUNT OF PRODUCT RECOVERED: 45 G

SPILL INVESTIGATED BY: EUFEMIA, STEVEN
SPILL INVESTIGATED BY: BREZINSKI, STEPHEN

TANK INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

VCP

SEARCH ID: 40 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI-MART
ADDRESS: 688 GRAY RD
GORHAM ME 04038

CONTACT:
SOURCE: ME DEP

REV: 1/5/04
ID1: MEVRAP-0404-99
ID2:
STATUS: VRAP
PHONE:

SITE INFORMATION

THIS SITE HAS RECEIVED FINAL VOLUNTARY RESPONSE ACTION PROGRAM CERTIFICATION:

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 13 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI MART
ADDRESS: 688 GRAY RT 202 RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P56093
ID2: P-560-1993
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	09/08/1993
REPORT DATE:	09/08/1993
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	UNLEADED GASOLINE
PRODUCT AMOUNT:	4.09 GALS.
AMOUNT QUALIFIER:	ACTUAL
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	NO TEXT. SEE ATTACHED
REPORTER TYPE:	PUBLIC OFFICIAL
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	ACCIDENT - HUMAN ERROR

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 28 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI MART
ADDRESS: 688 GRAY RT 202 RD
GORHAM ME

CONTACT:
SOURCE:

REV: 6/07/01
ID1: P40389
ID2:
STATUS:
PHONE:

NOTIFIER: BREZINSKI, S.G.
NOTIFIER S ADDRESS: ME DEP BOHMC
SOUTH PORTLAND ME
NOTIFIER PHONE:

DATE OF RELEASE:
CAUSE OF SPILL: OVERFILL (TANK OR VESSEL)
METHOD OF SPILL DETECTION: SPILLER - ALARMS/MONITORING WELLS
PRODUCT REPORTED SPILLED: GASOLINE UNSPECIFIED
ACTUAL PRODUCT SPILLED: GASOLINE UNSPECIFIED
AMOUNT SPILLED: 10.99
UNITS: G
SPILL SOURCE: TERMINAL- SERVICE STATION
MEDIUM AFFECTED: GROUNDWATER
TANKS INVOLVED: UNDERGROUND STORAGE TANKS
NUMBER OF WELLS AT RISK: 0
NUMBER OF WELLS IMPACTED: 0

METHOD OF SPILL RECOVERY: NONE
AMOUNT OF PRODUCT RECOVERED:

SPILL INVESTIGATED BY: BREZINSKI, STEPHEN

TANK INFORMATION:

TANK NUMBER:
SIZE OF TANK IN GALLONS: 6000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK: 16-20 YEARS
TANK STATUS: ACTIVE

TANK NUMBER:
SIZE OF TANK IN GALLONS: 6000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK: 16-20 YEARS
TANK STATUS: ACTIVE

TANK NUMBER:
SIZE OF TANK IN GALLONS: 6000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK: 16-20 YEARS
TANK STATUS: ACTIVE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

VCP

SEARCH ID: 41 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI-MART
ADDRESS: 688 GRAY (RTE. 202) RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 8/2/10
ID1: REM01039
ID2:
STATUS: VRAP
PHONE:

SITE INFORMATION

PROGRAM: VRAP
STATUS: NO FURTHER ACTION
INSTITUTIONAL CONTROL: FALSE

SITE INFORMATION

PROGRAM: VRAP
STATUS: NO FURTHER ACTION
INSTITUTIONAL CONTROL: FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 11 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LAMPRON LIL MART
ADDRESS: 688 GRAY RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-381-2004
ID2: P-381-2004
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	05/03/2004
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	UNLEADED GASOLINE
PRODUCT AMOUNT:	
AMOUNT QUALIFIER:	UNKNOWN
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	SOIL TO CRS
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	SITE ASSESSMENT
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	OTHER - UNKNOWN

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	TRUE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE
TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	TRUE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 12 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LAMPRONS LITTLE FALLS MINI MART
ADDRESS: 688 GRAY RD
GORHAM ME
CUMBERLAND
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-566-2007
ID2: P-566-2007
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	07/30/2007
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	GASOLINE UNSPECIFIED
PRODUCT AMOUNT:	
AMOUNT QUALIFIER:	UNKNOWN
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	TRUE
DTREE DATE:	09/06/2007
DTREE VALUE:	INTERMEDIATE
DISPOSAL INFO:	SOIL TO COMMERCIAL PAVING and RECYCLING COMPANY
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	ODOR/VAPOR/MIST
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	CORROSION - OTHER

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 14 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI MART
ADDRESS: 688 GRAY RD., RT. 202
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-697-2001
ID2: P-697-2001
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	08/29/2001
REPORT DATE:	08/29/2001
SPILL TYPE:	NON-OIL, NON-HAZARDOUS INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	NONE
PRODUCT AMOUNT:	0 GALS.
AMOUNT QUALIFIER:	ACTUAL
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	N/A
REPORTER TYPE:	DEP PERSONNEL
DETECTION METHOD:	UST TANK ANOMALY
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	NO SOURCE
SPILL CAUSE:	OTHER - NO CAUSE

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 15 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI MART (LIL MART)
ADDRESS: 688 GRAY RT 202 RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P25791
ID2: P-257-1991
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	04/24/1991
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	GASOLINE UNSPECIFIED
PRODUCT AMOUNT:	20 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	LANDFARMED GORHAM PUBLIC WORKS YARD
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	UST TANK ANOMALY
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	CORROSION - TANK

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE
TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE
TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 16 **DIST/DIR:** 0.46 SW **ELEVATION:** 138 **MAP ID:** 23

NAME: LITTLE FALLS MINI MART GULF
ADDRESS: 688 GRAY RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-1015-2002
ID2: P-1015-2002
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	07/22/2002
REPORT DATE:	07/22/2002
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	GASOLINE UNSPECIFIED
PRODUCT AMOUNT:	5 GALS.
AMOUNT QUALIFIER:	ESTIMATE
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	WASTE RE-USED.
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	UST TANK ANOMALY
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	OTHER - UNKNOWN

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	13451
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 17 **DIST/DIR:** 0.49 SE **ELEVATION:** 122 **MAP ID:** 24

NAME: LITTLE FALLS MOBIL
ADDRESS: 20 MOSHER RD
GORHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-278-2005
ID2: P-278-2005
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	03/30/2005
SPILL TYPE:	NON-OIL, NON-HAZARDOUS INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	NONE
PRODUCT AMOUNT:	
AMOUNT QUALIFIER:	
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	
REPORTER TYPE:	SUBJECT/SPILLER
DETECTION METHOD:	UST TANK ANOMALY
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	NO SOURCE
SPILL CAUSE:	OTHER - NO CAUSE

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	6401
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 10 **DIST/DIR:** 0.49 SE **ELEVATION:** 122 **MAP ID:** 24

NAME: LAMPRON ENERGY
ADDRESS: 20 MOSHER RD
GORHAM ME
CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P-584-2003
ID2: P-584-2003
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	07/31/2003
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	UNLEADED GASOLINE
PRODUCT AMOUNT:	
AMOUNT QUALIFIER:	UNKNOWN
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	
DTREE VALUE:	
DISPOSAL INFO:	NONE
REPORTER TYPE:	CONTRACTOR/CONSULTANT
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	STORAGE UNIT - UNDERGROUND STORAGE TANK
SPILL CAUSE:	OTHER - UNKNOWN

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	6401
TANK NUMBER:	7
AST INSIDE:	FALSE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS

SEARCH ID: 18 **DIST/DIR:** 0.49 SE **ELEVATION:** 122 **MAP ID:** 24

NAME: LITTLE FALLS MOBIL
ADDRESS: 20 MOSHER RT. 202 RD
GORHAM ME

CONTACT:
SOURCE: ME DEP

REV: 7/31/10
ID1: P20599
ID2: P-205-1999
STATUS:
PHONE:

SITE INFORMATION

SPILL DATE:	
REPORT DATE:	03/24/1999
SPILL TYPE:	OIL INCIDENT
SPILL OFFICE:	PORTLAND
DESCRIPTION	
PRODUCT SPILLED:	DIESEL
PRODUCT AMOUNT:	UNKNOWN
AMOUNT QUALIFIER:	UNKNOWN
FURTHER RESPONSE:	FALSE
NUM WELLS IMPACTED:	0
NUM WELLS AT RISK:	0
DTREE COMPLETED:	FALSE
DTREE DATE:	04/07/1999
DTREE VALUE:	INTERMEDIATE
DISPOSAL INFO:	SEE NARRATIVE.
REPORTER TYPE:	DEP PERSONNEL
DETECTION METHOD:	VISUAL PRODUCT
LOCATION:	TERMINAL - SERVICE STATION
SOURCE:	
SPILL CAUSE:	OTHER - UNKNOWN

TANK INFORMATION

TYPE TANK INVOLVED:	UNDERGROUND TANK(S) INVOLVED
TANK REMOVED:	FALSE
REGISTERED UST:	TRUE
TANK SITE NUMBER:	6401
TANK NUMBER:	
AST INSIDE:	FALSE

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 27 **DIST/DIR:** 0.49 SW **ELEVATION:** 130 **MAP ID:** 25

NAME: KIMBALL S MOBIL
ADDRESS: 20 MOSHER (RT 237) RD
GORHAM ME 04104

CONTACT:
SOURCE:

REV: 6/07/01
ID1: P42889
ID2:
STATUS:
PHONE:

NOTIFIER: BREZINSKI, S. G.
NOTIFIER S ADDRESS: MAINE DEP
SOUTH PORTLAND ME 04106
NOTIFIER PHONE: 2077674761

DATE OF RELEASE: 01-SEP-1988
CAUSE OF SPILL: 02
METHOD OF SPILL DETECTION: CITIZEN COMPLAINT - WATER IN TANK
PRODUCT REPORTED SPILLED: GASOLINE UNSPECIFIED
ACTUAL PRODUCT SPILLED: GASOLINE UNSPECIFIED
AMOUNT SPILLED: 1.99
UNITS: G
SPILL SOURCE: TERMINAL- SERVICE STATION
MEDIUM AFFECTED: LAND AND GROUNDWATER
TANKS INVOLVED: UNDERGROUND STORAGE TANKS
NUMBER OF WELLS AT RISK: 0
NUMBER OF WELLS IMPACTED: 0

METHOD OF SPILL RECOVERY: VACUUM TRUCKS
AMOUNT OF PRODUCT RECOVERED: .99 G

SPILL INVESTIGATED BY: MCLAUGHLIN, DIANA
SPILL INVESTIGATED BY: BREZINSKI, STEPHEN

TANK INFORMATION:

TANK NUMBER:
SIZE OF TANK IN GALLONS: 4000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK:
TANK STATUS: ABANDONED

TANK NUMBER:
SIZE OF TANK IN GALLONS: 275
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK:
TANK STATUS: ACTIVE

TANK NUMBER:
SIZE OF TANK IN GALLONS: 10000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK:
TANK STATUS: ACTIVE

TANK NUMBER:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

SPILLS80

SEARCH ID: 27 **DIST/DIR:** 0.49 SW **ELEVATION:** 130 **MAP ID:** 25

NAME: KIMBALL S MOBIL
ADDRESS: 20 MOSHER (RT 237) RD
GORHAM ME 04104

CONTACT:
SOURCE:

REV: 6/07/01
ID1: P42889
ID2:
STATUS:
PHONE:

SIZE OF TANK IN GALLONS: 3000
TANK MATERIAL: STEEL - BARE OR ASPHALT COATED
PIPE MATERIAL: STEEL - BARE OR ASPHALT COATED
AGE OF TANK:
TANK STATUS: ACTIVE

Environmental FirstSearch
Site Detail Report

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

STATE

SEARCH ID: 2 **DIST/DIR:** 0.73 SE **ELEVATION:** 100 **MAP ID:** 26

NAME: MAINE CORRECTIONAL CENTER
ADDRESS: 0 RIVER RD
WINDHAM ME
CONTACT:
SOURCE: ME DEP

REV: 8/2/10
ID1: ME387
ID2: REM00908
STATUS: REFERRED TO OTHER PROGRAMS
PHONE:

SITE INFORMATION

STATUS: REFERRED TO OTHER PROGRAMS
PROGRAM: UNCONTROLLED SITES
INSTITUTIONAL CONTROLS: UNKNOWN

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 7 DEPOT ST
WINDHAM ME 04062

JOB: 16989.5
KEDDY MILL PHASE I

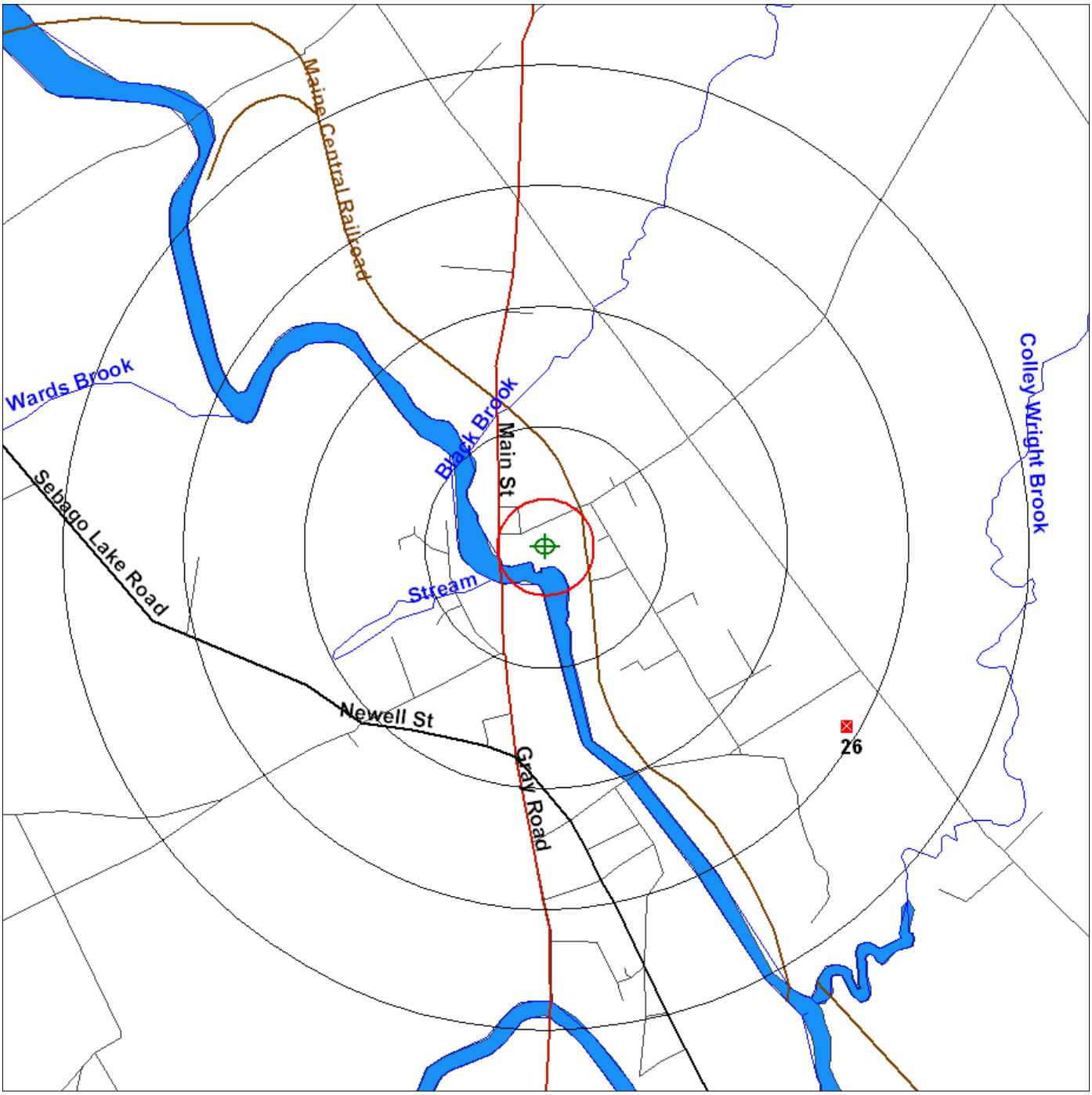
Street Name	Dist/Dir	Street Name	Dist/Dir
Androscoggin St	0.16 SE		
Ash St	0.14 NE		
Depot St	0.05 NW		
Gray Rd	0.06 SW		
High St	0.16 NE		
Huston Rd	0.21 SW		
Main St	0.08 NW		
Mechanic St	0.05 NW		
Parker Hill Rd	0.17 SW		
State Route 4	0.06 SW		
Tow Path Rd	0.17 SW		
United States Highwa	0.06 SW		

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

7 DEPOT ST, WINDHAM ME 04062



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 43.734691 Longitude: -70.424121) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, SPILLS90, SWL

7 DEPOT ST, WINDHAM ME 04062

Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 43.734691 Longitude: -70.424121) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

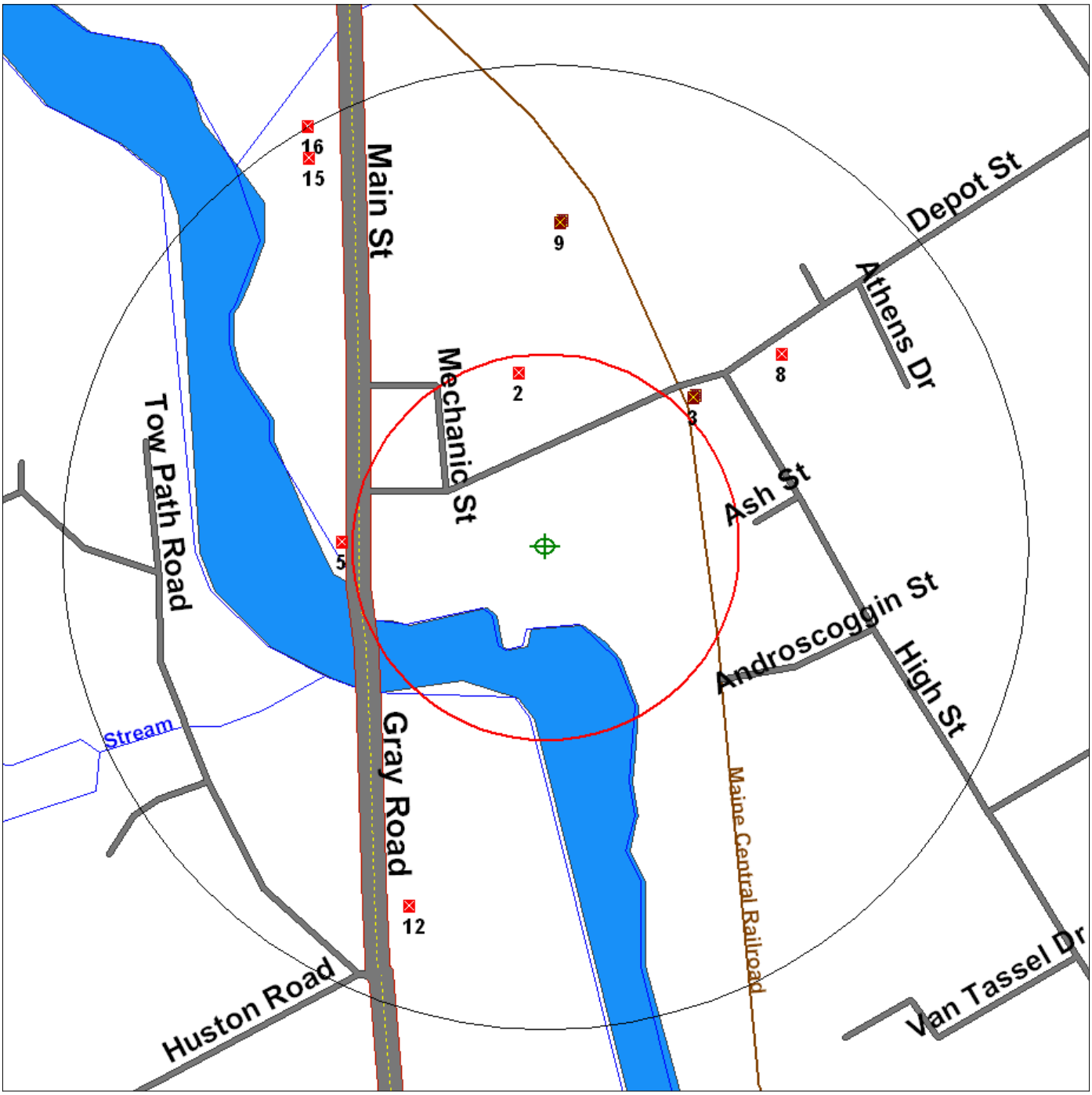
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

7 DEPOT ST, WINDHAM ME 04062



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 43.734691 Longitude: -70.424121) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

Non-ASTM Map: Spills 80

7 DEPOT ST, WINDHAM ME 04062

Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 43.734691 Longitude: -70.424121) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

National Historic Sites and Landmark Sites .....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Appendix D

MEDEP File Review Information

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-868-2005**

Spill Report Information

Spill Number:	P-868-2005
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	ANN E HEMENWAY
Primary Product:	PCB Oil {71} - 35.00 ESTIMATE
Subject/Owner:	VILLAGE AT LITTLE FALLS LLC - -

I. EVENT

Spill Info

Type:	Hazardous Material Incident
Source:	Utility - Electrical Transformer
Cause:	Discharge - Vandalism

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	07/05/2005 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	VILLAGE AT LITTLE FALLS LLC 2 MARKET ST - 6TH FLOOR PORTLAND ME 04101 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	ANN E HEMENWAY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Industrial {ID}
Name:	FORMER KEDDY MILL
Street Address:	7 DEPOT ST
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	ME

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Interior Surface {S}
Tanks Involved	
Tanks Involved:	Undefined

III. CLEANUP

Product Reported:	PCB Oil {71}
Products Found/Amount Spilled:	PCB Oil {71} - 35.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.00 UNKNOWN
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	Environ

IV. NARRATIVE

I was contacted by Todd Coffin reporting that there had been a spill of Polychlorinated Biphenyls (PCB) containing oil at a site he was working on. Apparently vandals broke into the former Keddy Mill and knocked over some electrical components that contained PCB oil, spilling 30 - 40 gallons of it onto the concrete floor in the mill. This mill is currently in the process of redevelopment and is going through the Voluntary Response Action Program (VRAP) process. The original VRAP application identified this PCB oil along with other areas of PCB oil impact. Mr Coffin contacted EPA and they defined the cleanup process required. Environ was hired to do the cleanup to EPA's requirements. No further Response action is needed at this time.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	7/14/05 email from Todd Coffin
Paper Attach	7/5/05 email from Todd Coffin

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-296-2005**

Spill Report Information

Spill Number:	P-296-2005
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	JON L WOODARD
Primary Product:	Waste Oil/Used Motor Oil {81} - 0.00 UNKNOWN
Subject/Owner:	- JOSEPH KITTRELL -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Other Source
Cause:	Accident - Human Error

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Other Involved Party {7}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	04/19/2005 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	JOSEPH KITTRELL- 13 DEPOT ST WINDHAM ME 04062 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	JON L WOODARD (Primary Responder) TIMOTHY F WRIGHT
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Commercial {CM}
Name:	WESTBROOK TRANSMISSION
Street Address:	13 DEPOT ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-0 0

III. CLEANUP

Product Reported:	Oil - Other - Specified in Report {88}
Products Found/Amount Spilled:	Sulfuric Acid {72} - 0.00 UNKNOWN Waste Oil/Used Motor Oil {81} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	None {NO} - 0.00 gals. ESTIMATE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

I received a call from Mr. Merrill Laskey reporting that a former tenant of his, Joe Kittrell, Westbrook Transmission, had left a "mess" on his 13 Depot St. property in Windham. Among the products allegedly dumped were tires, petroleum products, batteries, and other auto fluids. He also claimed to have a report from a consultant verifying the contamination. Since it sounded like a possible hazardous waste intentional dumping issue, I requested that Tim Wright of the RCRA Enforcement Unit accompany me on the initial site visit.

We first met with Mr. Laskey at his home where he provided us a letter from his attorney which referred to and included a site assessment and letter from an attorney for Mr. Kittrell. The site assessment identified several issues of concern as already reported to us by Mr. Laskey. It further stated there was subsurface contamination associated with a former UST removed in 1993, which I coincidentally submitted a spill report for (P-696-1993).

We visited 13 Depot St. with Mr. Laskey and noted issues such as abandoned containers of petroleum, tires, batteries, spills of oil, and other bad housekeeping issues common to automotive repair facilities. Most of which we could do nothing about. As for the former UST, Mr. Laskey pointed out the area where it was (500 gallon gasoline) as well as the location of a former tank (10,000 gallon gasoline). I had not required any clean-up in 1993 as the site was, at that time considered baseline and there were no soils above the baseline clean-up standard encountered. The current site assessment (Jacques Whitford, 2004) involved a more extensive sub-surface study and did reveal petroleum contamination down gradient of the 1993 UST removal site. This is also down-gradient of the 10,000 gallon UST, as well as at least one building with a floor drain.

This Site Assessment by Jacques Whitford had actually been contracted by a developer (Renee J. Lewis) who was also developing an adjacent property through the DEP's VRAP program. Upon learning this, it became clear to me that the developer was attempting to get Mr. Laskey to clean up the property through the Groundwater Fund using the 1993 tank removal. She would then buy the property and complete a VRAP clean-up. Upon determining this, I contacted Nick Hodgkins of the VRAP program. He was aware of the property and after discussing it we concurred that the most appropriate action would be for me to require clean-up of the surface spill issues, as with any normal site, then it would be up to any owner or potential owner to proceed with a VRAP if appropriate. It had been determined by Jacques Whitford that the clean-up would be a "baseline-2" as three private wells had been discovered within 1000 ft. up-gradient of the site. These wells had not been known of or considered in my 1993 decision. Nick would consider these in a VRAP decision, however he didn't feel that they should impact the clean-up level decision.

I sent a letter to Mr. Kittrell and copied Mr. Laskey as to the Department's requirements to clean-up the surface discharges and remove the abandoned tires. The remainder of the site would be addressed by the developer through the VRAP process. It is my understanding that initial clean-up was done and the VRAP application will be filed.

The Division of Response Services does not require any further action given the information known at this

time. Any further involvement by Response will be to support VRAP as needed. It is understood that clean-up requirements may be changed and clean-up levels may be reevaluated during the VRAP process.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Letters to Mr. Kittrell
Paper Attach	Letter to Mr. Laskey
Paper Attach	Jaques Whitford site assessment
Paper Attach	Letters from attorneys to Mr. Laskey

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-696-1993**

Spill Report Information

Spill Number:	P-696-1993
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	JON WOODARD
Primary Product:	
Subject/Owner:	ENERGY DEPOT - -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	
Cause:	Overfill
Spill Date/Time	
Spill Date/Time:	10/28/1993 00:00
Reporter Type/Detection Method	
Type:	Contractor/Consultant {6}
Method:	Tank and/or Piping Removal
Reported Date/Time	
Reported Date/Time:	10/28/1993 00:00
Subject/Spiller	
Contact:	ENERGY DEPOT 13 DEPOT STREET WINDHAM ME 04062
Comment:	
Primary Responder and Other Employees	
Contact(s):	JON WOODARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Business - Commercial {CM}
Name:	ENERGY DEPOT
Street Address:	13 DEPOT STREET
MCD Town:	WINDHAM
Local Name:	
State/Province:	
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-0 0

III. CLEANUP

Product Reported:	Leaded Gasoline {22}
Products Found/Amount Spilled:	Leaded Gasoline {22} - 0.00 ACTUAL
Material Recovered:	NONE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-716-1997**

Spill Report Information

Spill Number:	P-716-1997
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	STEPHEN FLANNERY
Primary Product:	
Subject/Owner:	SOUTH WINDHAM COMMUNITY CHURCH - -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	
Cause:	Mechanical Failure - Valve
Spill Date/Time	
Spill Date/Time:	11/25/1997 00:00
Reporter Type/Detection Method	
Type:	Subject/Spiller {2}
Method:	Visual Product
Reported Date/Time	
Reported Date/Time:	11/25/1997 00:00
Subject/Spiller	
Contact:	SOUTH WINDHAM COMMUNITY CHURCH 15 MAIN STREET WINDHAM ME
Comment:	
Primary Responder and Other Employees	
Contact(s):	STEPHEN FLANNERY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Other - Religious {OTR}
Name:	SOUTH WINDHAM COMMUNITY CHURCH
Street Address:	15 MAIN STREET
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#1 Fuel Oil - Kerosene {01}
Products Found/Amount Spilled:	#1 Fuel Oil - Kerosene {01} - 30.00 ESTIMATE
Material Recovered:	Mixed Liquid Media {MM} - 30.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	WASTE TO MID MAINE WASTE ACTION CORP.

IV. NARRATIVE

Due to a damaged valve on an AST, kerosene was discharged onto the basement floor of the church. The fuel was contained with speedy-dry, and later disposed of. The valve was replaced.

No further action required.

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-193-1998**

Spill Report Information

Spill Number:	P-193-1998
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	LINDA DORAN
Primary Product:	
Subject/Owner:	- COUNTY CUMBERLAND -
	I. EVENT
Spill Info	
Type:	Oil Incident
Source:	
Cause:	Accident - Physical Breakage
Spill Date/Time	
Spill Date/Time:	05/11/1998
Reporter Type/Detection Method	
Type:	Subject/Spiller {2}
Method:	Visual Product
Reported Date/Time	
Reported Date/Time:	05/11/1998 00:00
Subject/Spiller	
Contact:	COUNTY CUMBERLAND- 142 FEDERAL STREET PORTLAND ME 04101
Comment:	
Primary Responder and Other Employees	
Contact(s):	LINDA DORAN (Primary Responder)
Comment:	No Further Response Action Expected
	II. SITE
Location	
Location Type:	Government - Local {LC}
Name:	BOMB SHELTER
Street Address:	HIGH STREET
MCD Town:	WINDHAM
Local Name:	
State/Province:	
Spill Point	

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	None {N}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 50.00 ESTIMATE
Material Recovered:	Mixed Liquid Media {MM} - 50.00 gals. ESTIMATE
Recovery/Treatment Method:	Pumps {B} Sorbents {C}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

On May 11, 1998 I was called to a spill at the old bomb shelter on High Road in Windham. The shelter now houses the Cumberland County Dispatch. One of the counties maintenance people had accidently broke the filter off of two 275 gallons oil tanks at the shelter. Approximately fifty gallons had spilled before the spill was stopped. All the spilled oil was contained to the concrete floored utility room excepting about five gallons that went into the sump. The sump had not run and I was therefore able to pump all the water/oil from it. The oil that spilled to the floor was cleaned up with sorbent pads. Clean Harbors was called to take care of all spill debris. No further action.

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-718-1994**

Spill Report Information

Spill Number:	P-718-1994
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	LINDA DORAN
Primary Product:	
Subject/Owner:	- COUNTY CUMBERLAND -

I. EVENT

Spill Info	
Type:	Non-Oil, Non-Hazardous Incident
Source:	
Cause:	Other - No Cause
Spill Date/Time	
Spill Date/Time:	Date and Time Unknown
Reporter Type/Detection Method	
Type:	Contractor/Consultant {6}
Method:	Tank and/or Piping Removal
Reported Date/Time	
Reported Date/Time:	11/16/1994 00:00
Subject/Spiller	
Contact:	COUNTY CUMBERLAND- 142 FEDERAL STREET PORTLAND ME 04101
Comment:	
Primary Responder and Other Employees	
Contact(s):	LINDA DORAN (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Government, Municipal or Religious Facility {NA}
Name:	EMERGENCY MANAGEMENT BUNKER
Street Address:	22 HIGH STREET
MCD Town:	WINDHAM
Local Name:	
State/Province:	
Spill Point	

Spill Point:	UTM North 4842943.38 UTM East 385689.01
Wells and Media Affected	
Wells Affected:	2 Wells Impacted/ 1 Well At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-24 2 Underground Tank(s) Involved-24 1

III. CLEANUP

Product Reported:	Leaded Gasoline {22}
Products Found/Amount Spilled:	None {00} - 0.00 ACTUAL
Material Recovered:	NONE
Recovery/Treatment Method:	Other {J}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-246-1988**

Spill Report Information

Spill Number:	P-246-1988
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	JOHN GORDON
Primary Product:	
Subject/Owner:	- ERNEST RANDALL -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	
Cause:	Mechanical Failure - Piping/Hose
Spill Date/Time	
Spill Date/Time:	Date and Time Unknown
Reporter Type/Detection Method	
Type:	Citizen Complaint {3}
Method:	Other
Reported Date/Time	
Reported Date/Time:	10/13/1988 00:00
Subject/Spiller	
Contact:	ERNEST RANDALL- 28 DEPOT STREET SOUTH WINDHAM ME 04082
Comment:	
Primary Responder and Other Employees	
Contact(s):	JOHN GORDON (Primary Responder) JOHN DUNLAP
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Residential - Single Family {SF}
Name:	RANDALL RESIDENCE
Street Address:	28 DEPOT ST.
MCD Town:	WINDHAM
Local Name:	
State/Province:	
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 1 Well At Risk
Media Affected:	Groundwater {G}
Tanks Involved	
Tanks Involved:	NONE

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 250.00 ACTUAL
Material Recovered:	Mixed Liquid Media {MM} - 250.00 gals. ACTUAL
Recovery/Treatment Method:	Vacuum Trucks {A}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-246-1988**

Spill Report Information

Spill Number:	P-246-1988
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	JOHN GORDON
Primary Product:	
Subject/Owner:	- ERNEST RANDALL -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	
Cause:	Mechanical Failure - Piping/Hose
Spill Date/Time	
Spill Date/Time:	Date and Time Unknown
Reporter Type/Detection Method	
Type:	Citizen Complaint {3}
Method:	Other
Reported Date/Time	
Reported Date/Time:	10/13/1988 00:00
Subject/Spiller	
Contact:	ERNEST RANDALL- 28 DEPOT STREET SOUTH WINDHAM ME 04082
Comment:	
Primary Responder and Other Employees	
Contact(s):	JOHN GORDON (Primary Responder) JOHN DUNLAP
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Residential - Single Family {SF}
Name:	RANDALL RESIDENCE
Street Address:	28 DEPOT ST.
MCD Town:	WINDHAM
Local Name:	
State/Province:	
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 1 Well At Risk
Media Affected:	Groundwater {G}
Tanks Involved	
Tanks Involved:	NONE

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 250.00 ACTUAL
Material Recovered:	Mixed Liquid Media {MM} - 250.00 gals. ACTUAL
Recovery/Treatment Method:	Vacuum Trucks {A}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-375-2002**

	Spill Report Information
Spill Number:	P-375-2002
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	SHERYL J BERNARD
Primary Product:	#2 Fuel Oil {02} - 5.00 ESTIMATE
Subject/Owner:	WINDHAM SCHOOL DEPARTMENT - LORING - SUPERINTENDANT
	I. EVENT
Spill Info	
Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Other - Unknown
Spill Date/Time	
Spill Date/Time:	Date and Time Unknown
Reporter Type/Detection Method	
Type:	Contractor/Consultant {6}
Method:	Visual Product
Reported Date/Time	
Reported Date/Time:	05/17/2002 00:00
Subject/Spiller (Potential Responsible Party)	
Contact:	LORING-SUPERINTENDANT-WINDHAM SCHOOL DEPARTMENT ME USA
Comment:	
Primary Responder and Other Employees	
Contact(s):	SHERYL J BERNARD (Primary Responder)
Comment:	No Further Response Action Expected
	II. SITE
Location	
Location Type:	School - Public {PS}
Name:	REAL SCHOOL
Street Address:	55 HIGH ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME
Spill Point	
Spill Point:	

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 5.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 5.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	by C N Brown

IV. NARRATIVE

On 5/17/02, Jon Woodard received a report of a small spill at the Real School in Windham. On 6/3 Jon asked me to follow up on the report. I learned from Linda MacDonald of C. N. Brown that there appeared to be historical spillage around the fill area for an above ground storage tank on the site. Webber Energy had previously filled the account. Unknown if Webber is responsible for the spillage. The C. N. Brown truck driver on site cleaned up the spill with sorbent pads. No further action required.

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-1053-2002**

Spill Report Information

Spill Number:	P-1053-2002
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	NATHAN THOMPSON
Primary Product:	#2 Fuel Oil {02} - 0.12 ESTIMATE
Subject/Owner:	- BILL ESKILSON -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Mechanical Failure - Loose Fitting
Spill Date/Time	
Spill Date/Time:	04/03/2002 00:00
Reporter Type/Detection Method	
Type:	Contractor/Consultant {6}
Method:	Visual Product
Reported Date/Time	
Reported Date/Time:	04/03/2002 00:00
Subject/Spiller (Potential Responsible Party)	
Contact:	BILL ESKILSON- 46 HIGH ST WINDHAM ME 04062 USA
Comment:	
Primary Responder and Other Employees	
Contact(s):	NATHAN THOMPSON (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Residential - Single Family {SF}
Name:	BILL ESKILSON
Street Address:	46 HIGH ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 0.12 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.12 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	sorbents entered into Downeast Energy waste stream.

IV. NARRATIVE

4.3.02, No DEP response, phone contact indicates satisfactory clean up. Fire-matic valve on tank was leaking and replaced during service call. Spill to concrete floor cleaned up with sorbent pads.

No further Response action warranted.
Nathan Thompson, SMRO

V.ATTACHMENTS

Attachment Type	**Description**
Paper Attach	DEP Initial Spill Report Form

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-728-1999**

Spill Report Information

Spill Number:	P-728-1999
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	SHERYL BERNARD
Primary Product:	#2 Fuel Oil {02} - 50.00 ESTIMATE
Subject/Owner:	- MICHAEL SHAUGHNESSY -

I. EVENT

Spill Info	
Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Corrosion - Piping
Spill Date/Time	
Spill Date/Time:	Date and Time Unknown
Reporter Type/Detection Method	
Type:	Subject/Spiller {2}
Method:	Visual Product
Reported Date/Time	
Reported Date/Time:	10/08/1999 00:00
Subject/Spiller	
Contact:	MICHAEL SHAUGHNESSY- 43 PARK RD. WINDHAM ME 04062
Comment:	
Primary Responder and Other Employees	
Contact(s):	SHERYL BERNARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location	
Location Type:	Residential - Single Family {SF}
Name:	SHAUGHNESSY, MICHAEL
Street Address:	32 MAIN ST.
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	ME
Spill Point	

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 50.00 ESTIMATE (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 1.32 tons ACTUAL
Recovery/Treatment Method:	Excavation {G}
Cleanup DTREE:	
Disposal Information:	Contaminated soil to Commercial Recycling.

IV. NARRATIVE

On 10/8/99 I received a call from Michael Shaughnessy of Windham reporting an oil spill at a property he owned in South Windham. The heating oil spill occurred due to a leaking copper fuel line. The spill occurred in the dirt floor basement of the building.

I visited the site on 10/12 and observed oil staining on the dirt floor. I made arrangements to have Fleet Environmental Services excavate the spill with a vactor. Myself and Fleet returned to the site on 10/14 and cleaned up the spill. The majority of the spillage was recovered, but a small amount of contaminated soil was left behind because it was too close to support structures in the building to remove safely. No further action required.

SHERYL J. M. BERNARD
OIL & HAZARDOUS MATERIALS SPECIALIST II
DECEMBER 13, 1999

V.ATTACHMENTS

None

New Search

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Oil & Hazardous Materials Report Form
Spill Number: P/290/88

Subject:
Name (Last, First MI): BAGLIVO, MS. L.
Address: 14 WOODLAWN AVE. Town: GORHAM
State: ME Zip-code: 04038 Telephone: 2078923514

Spill Information:
Location (Town): GORHAM Spill Type: A
Amount spilled: 5.00 gals.Y cu. yds.N lbs.N bbls.N
Type of spill: 01
Date of Spill: 88/11/02 (yy/mm/dd) Time of Spill: 0830 (Military)
Date Reported: 88/11/02 (yy/mm/dd) Time Reported: 0920 (Military)
Cause: 09 Detection method: 2I
Incident code: BSFL DEP response time involved: 1.5 (hours)
Number of wells at risk: 0 Number of wells impacted: 0
Investigators' names: 1. GORDON, JOHN R.
2. _____
3. _____

Person Reporting Incident:
Name (Last, First MI): PETTIT, EDWARD/UNION OIL
Address: 63 OCEAN STREET Town: SOUTH PORTLAND
State: ME Zip-code: 04106 Telephone: _____

Oil & Hazardous Materials Report Form
Spill Number: P/290/88 (continued)

Clean-up Information:

Total product recovered: 3.00 gals.Y cu. yds.N lbs.N bbls.N
Method: C Non-recyclable: 3.00 gals.Y bbls.N
Solids: combustible: _____ cu. yds.N tonsN
non-combustible: 1.0 cu.yds.
Recyclable material: _____ gals.N cu. yds.N lbs.N bbls.N
Number of filters installed: 0 Number of aerators installed: 0
Disposal information:
_____

Other Actions:

Reimbursement: to SF (surface water): N (Y/N)
to GF (ground water): N (Y/N)
to HWF (haz waste): N (Y/N)
Third party damage claim expected: N (Y/N)
Enforcement Referral: N (Y/N)

P/290/88
Ms. L. Baglivo

John Gordon was notified at 0920 11-2-88 of an oil spill at the Lauren Baglivo residence on Woodlawn Avenue in North Gorham (Little Falls). The spill, which was reported by Ed Pettit of Union Oil Company, was the result of an overfill of an aboveground kerosene tank.
Approximately 5 gallons of K-1 was spilled on a gravel driveway. Union Oil personnel on the scene padded up as much of the material as possible, and spread out speedi-dry to try and catch as much of the remaining material as possible.

Mr. Gordon visited the scene of the spill on 11-5, and spoke with the property owner. Ms. Baglivo stated that the spill was cleaned up to her satisfaction, and that she had city water, so that well contamination was not a potential problem in the area.

There was still some odor present at the site, but the material seemed to be confined to the surface of the ground and to be dissipating, so no action was recommended.

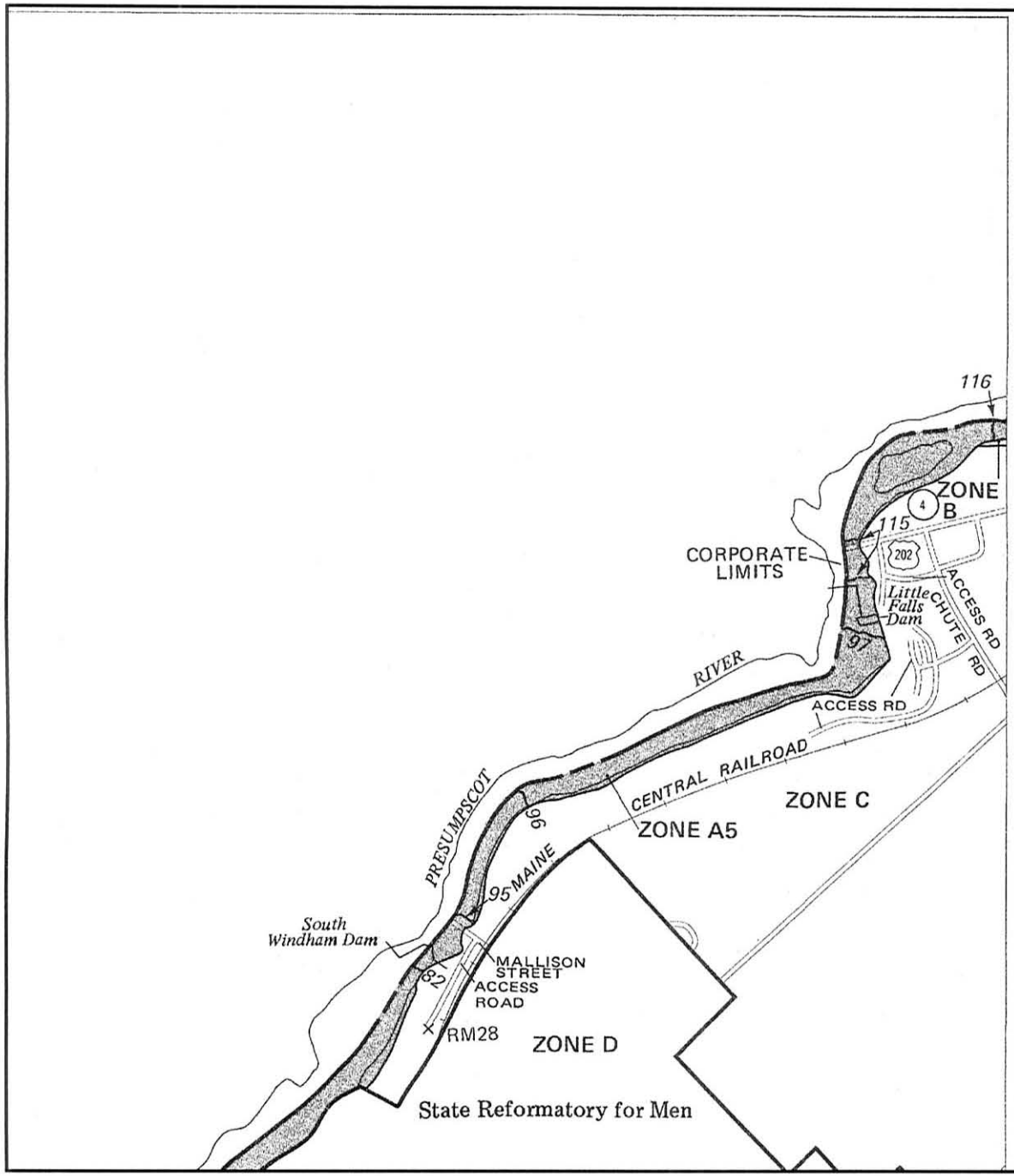
No further action is recommended.

JOHN R. GORDON
Oil & Hazardous Materials Specialist I
Bureau of Oil & Hazardous Materials

JRG/db

Appendix E

FEMA Flood Zone Map



COMMUNITY PANEL NUMBER

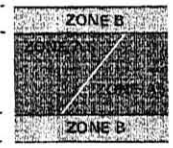
230189 0025 B

EFFECTIVE DATE:

SEPTEMBER 2, 1981

KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
100-Year Flood Boundary
500-Year Flood Boundary



Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation in Feet Where Uniform Within Zone** — (EL 987)

Elevation Reference Mark — RM7 ×

River Mile — • M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

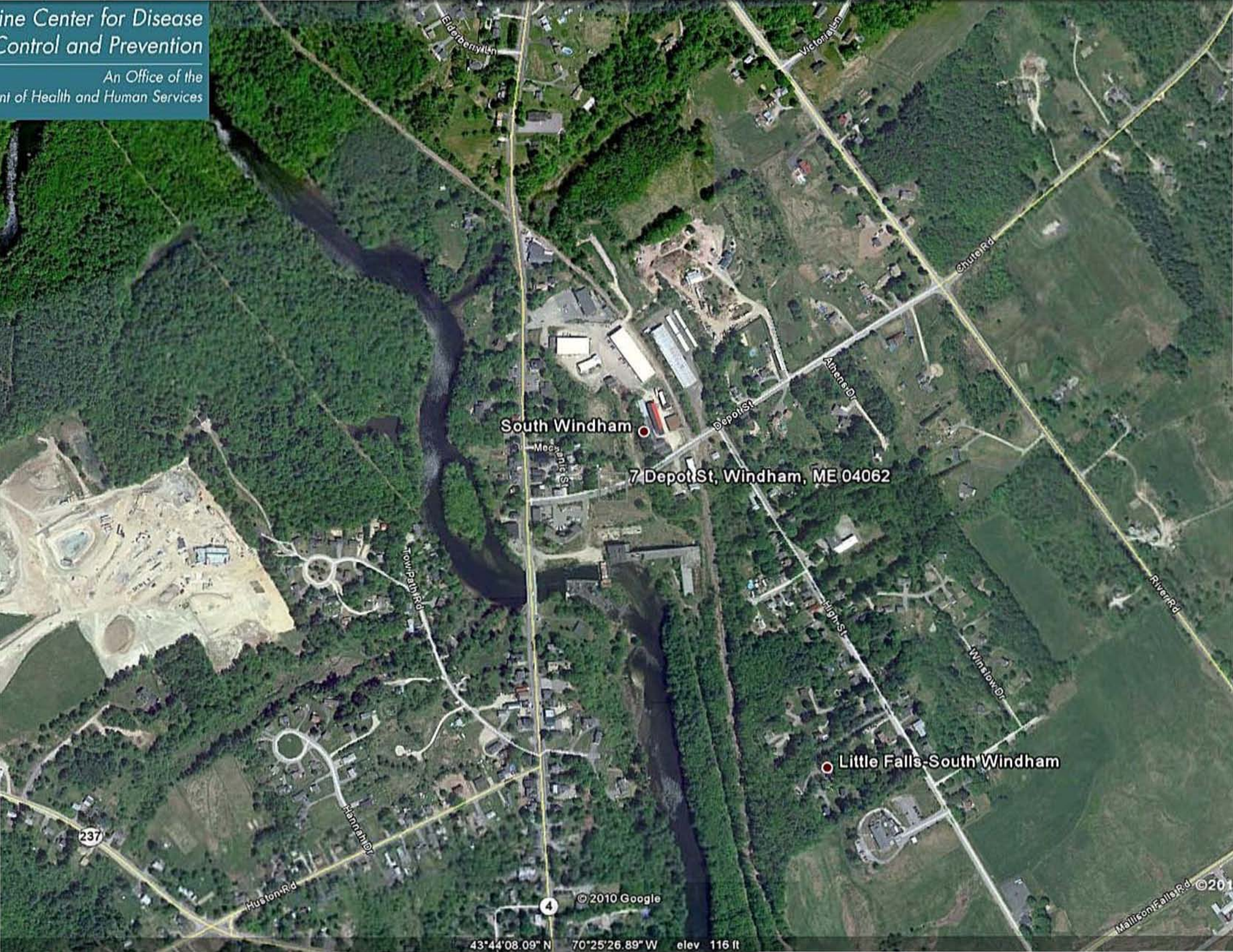
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Appendix F

Significant Sand and Gravel Aquifer Map

ine Center for Disease
Control and Prevention

An Office of the
nt of Health and Human Services



Appendix G

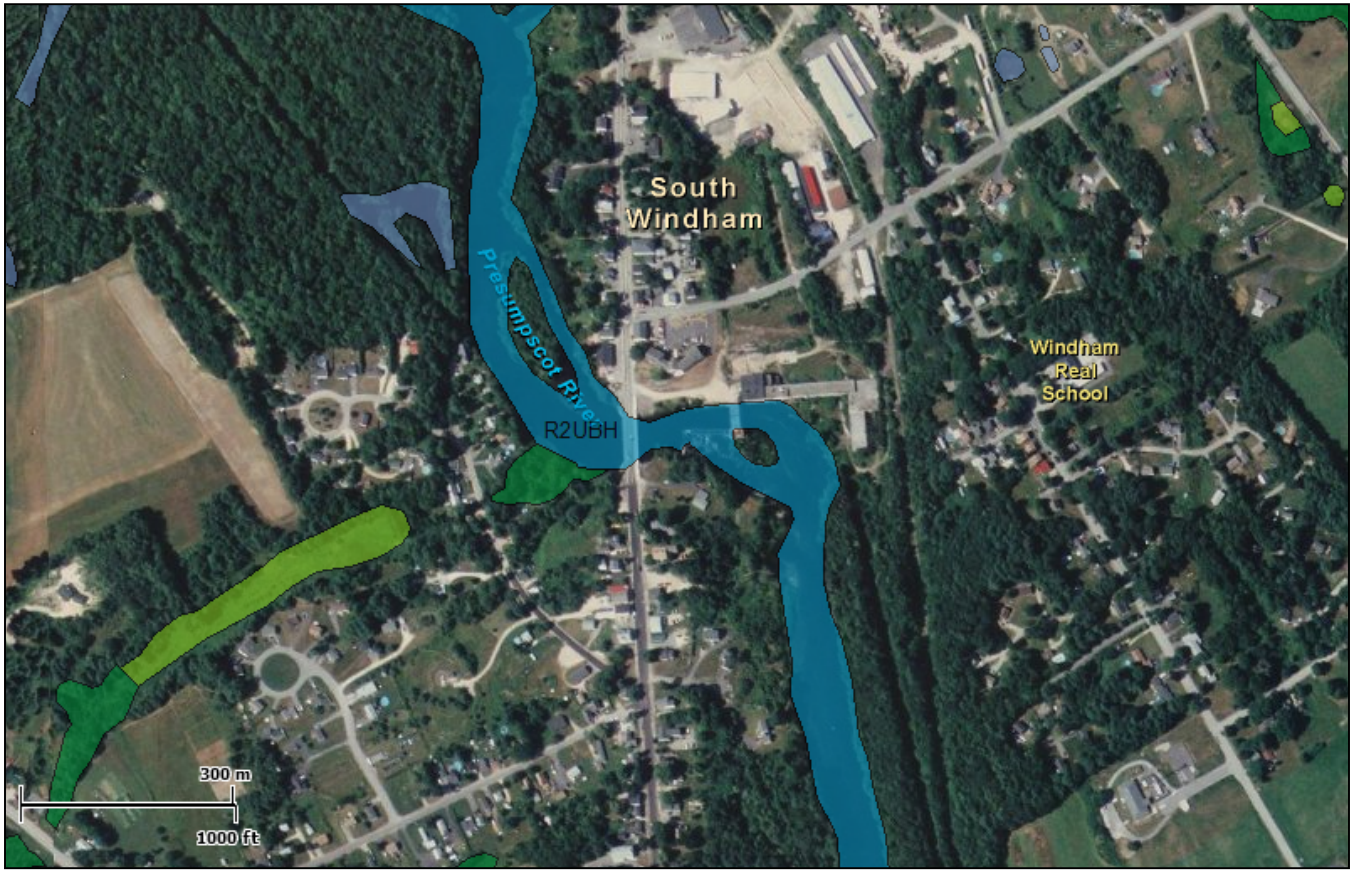
US Fish & Wildlife Wetlands Map

U.S. Fish and Wildlife Service

National Wetlands Inventory

Keddy Mill Wetland Map

Oct 11, 2010



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deetwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

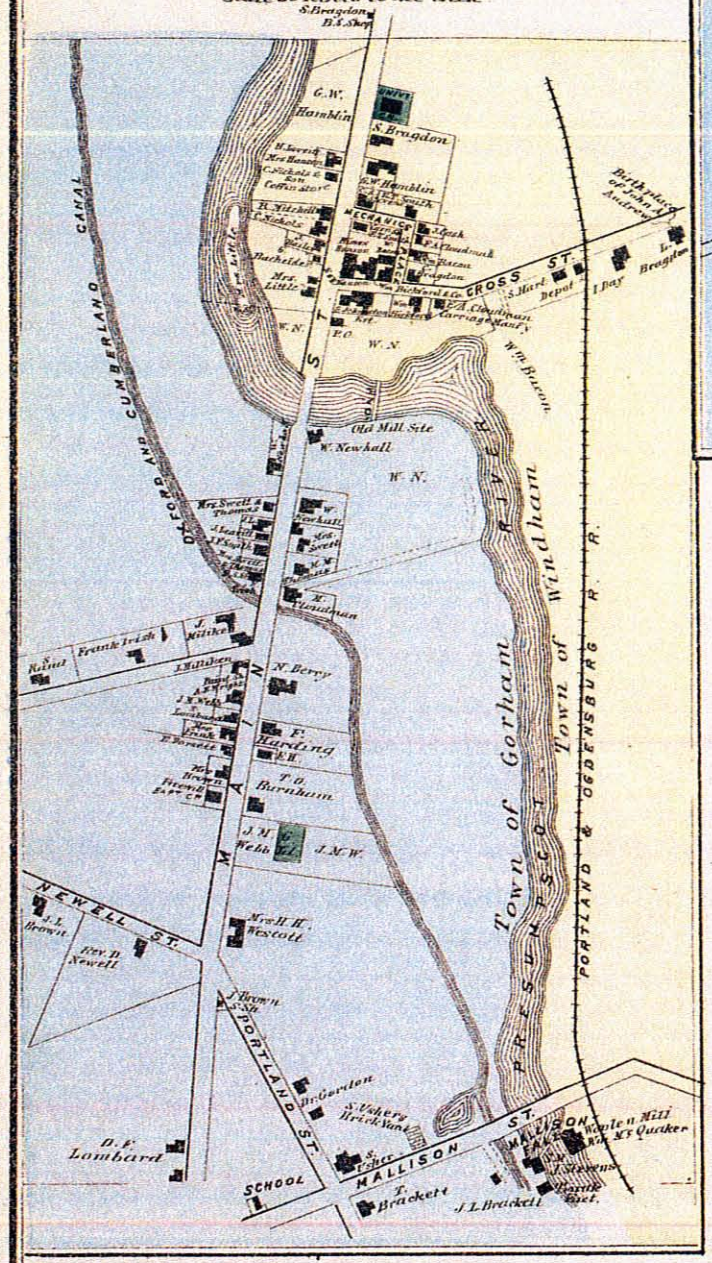
Appendix H

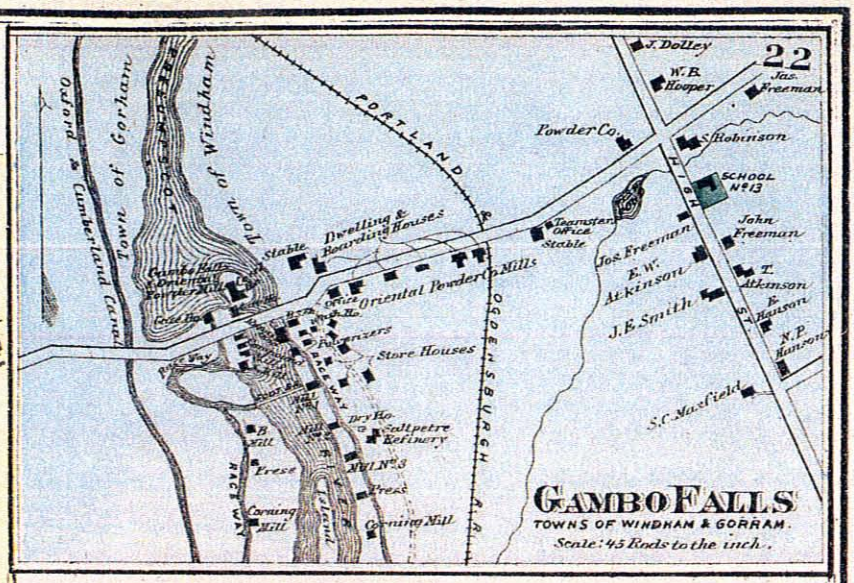
Historical Map

LITTLE FALLS

TOWNS OF WINDHAM & GORHAM

Scale 30 Rods to the inch.

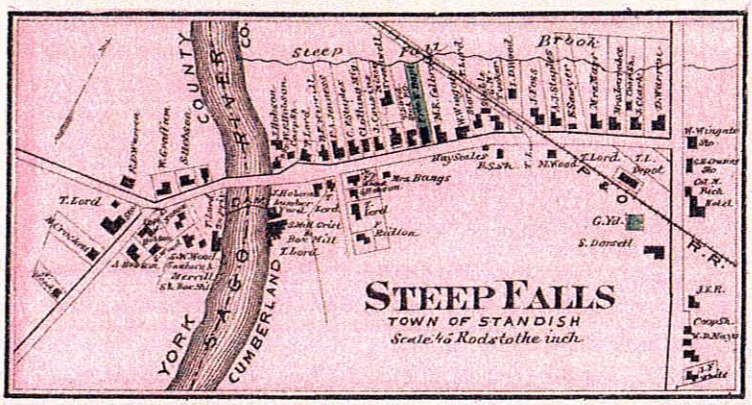




GAMBO FALLS

TOWNS OF WINDHAM & GORHAM.

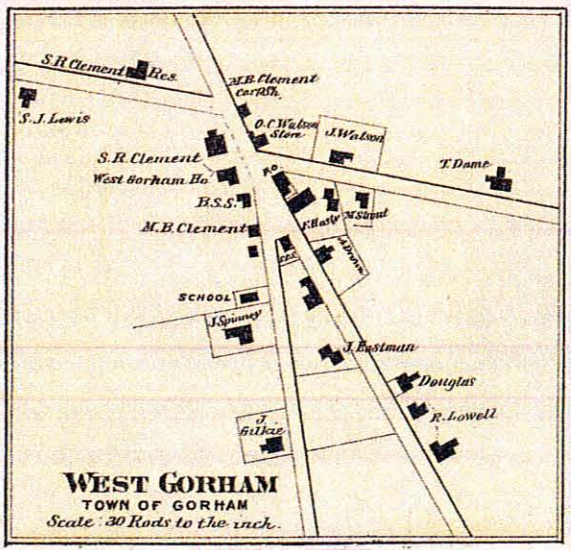
Scale: 45 Rods to the inch.



STEEP FALLS

TOWN OF STANDISH

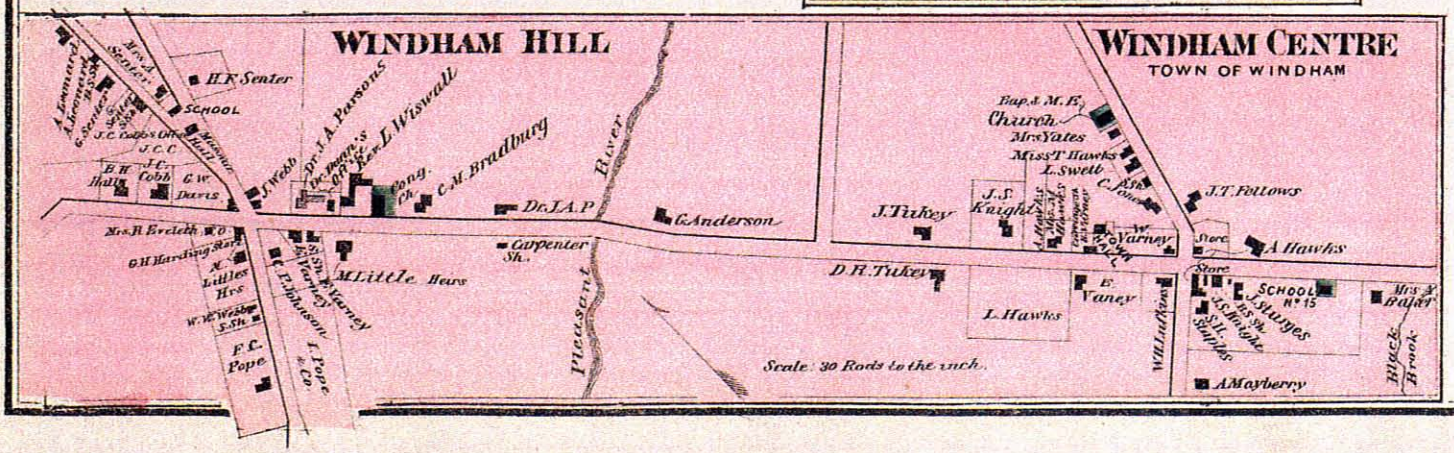
Scale 45 Rods to the inch



WEST GORHAM

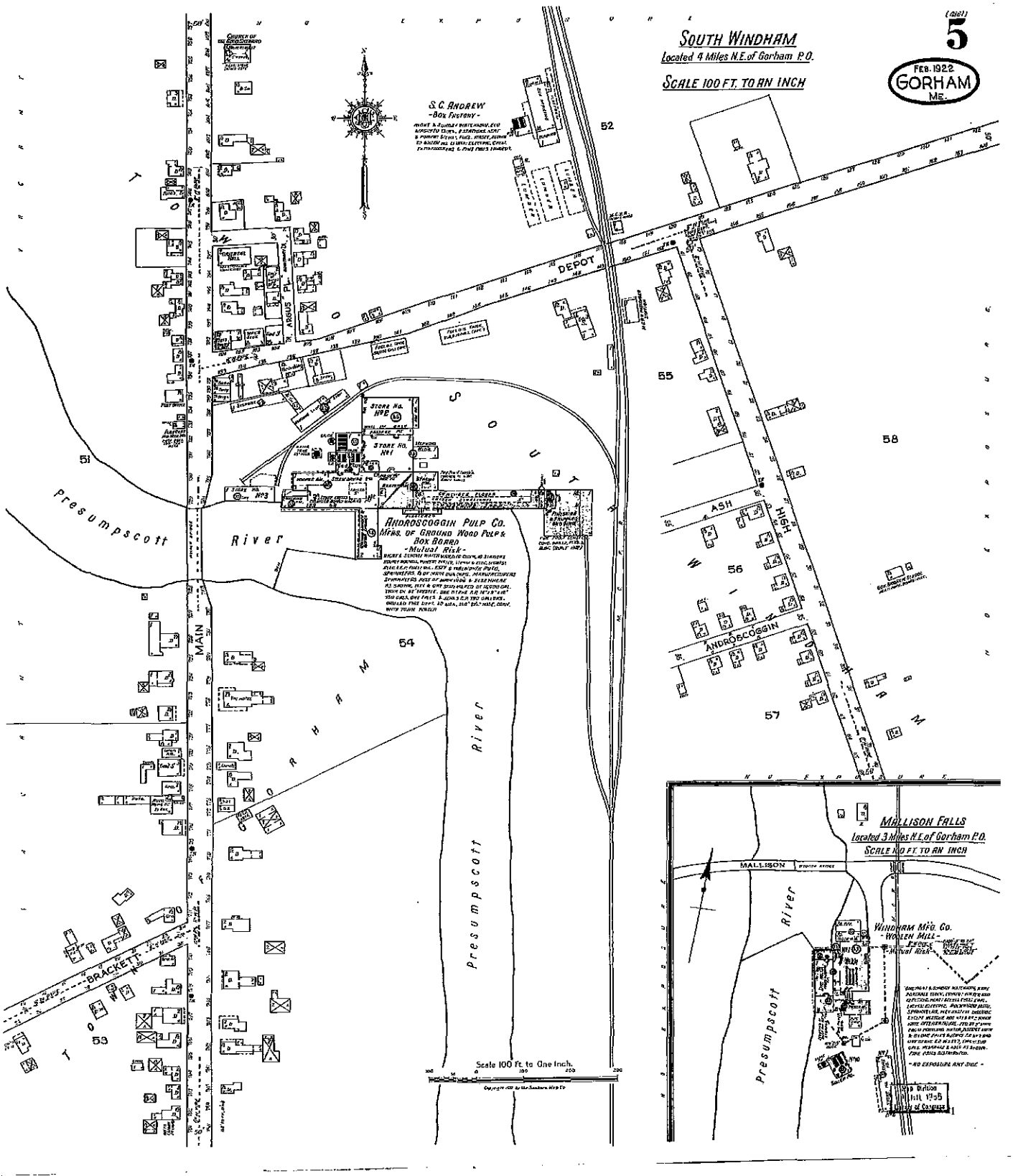
TOWN OF GORHAM

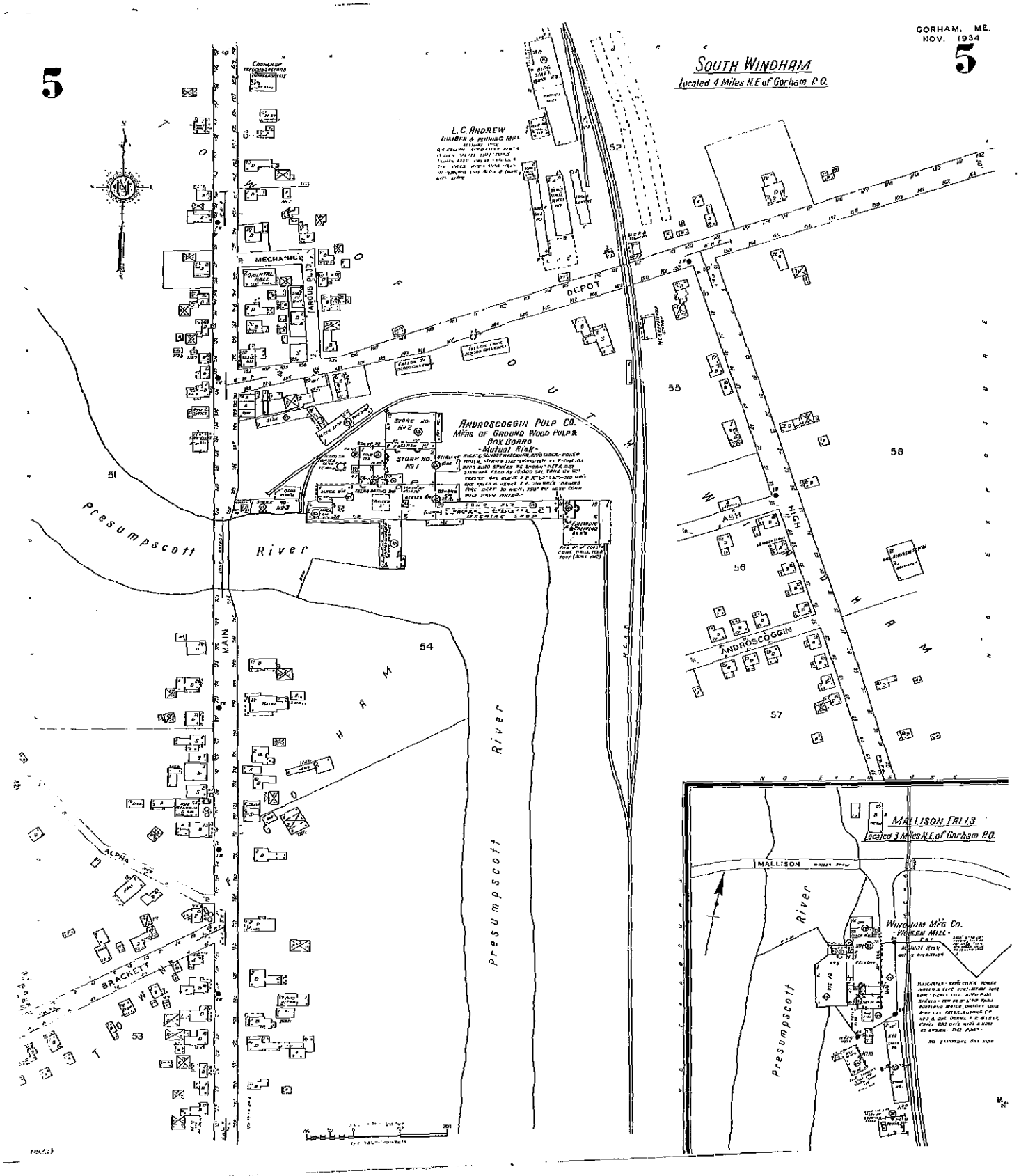
Scale: 30 Rods to the inch.

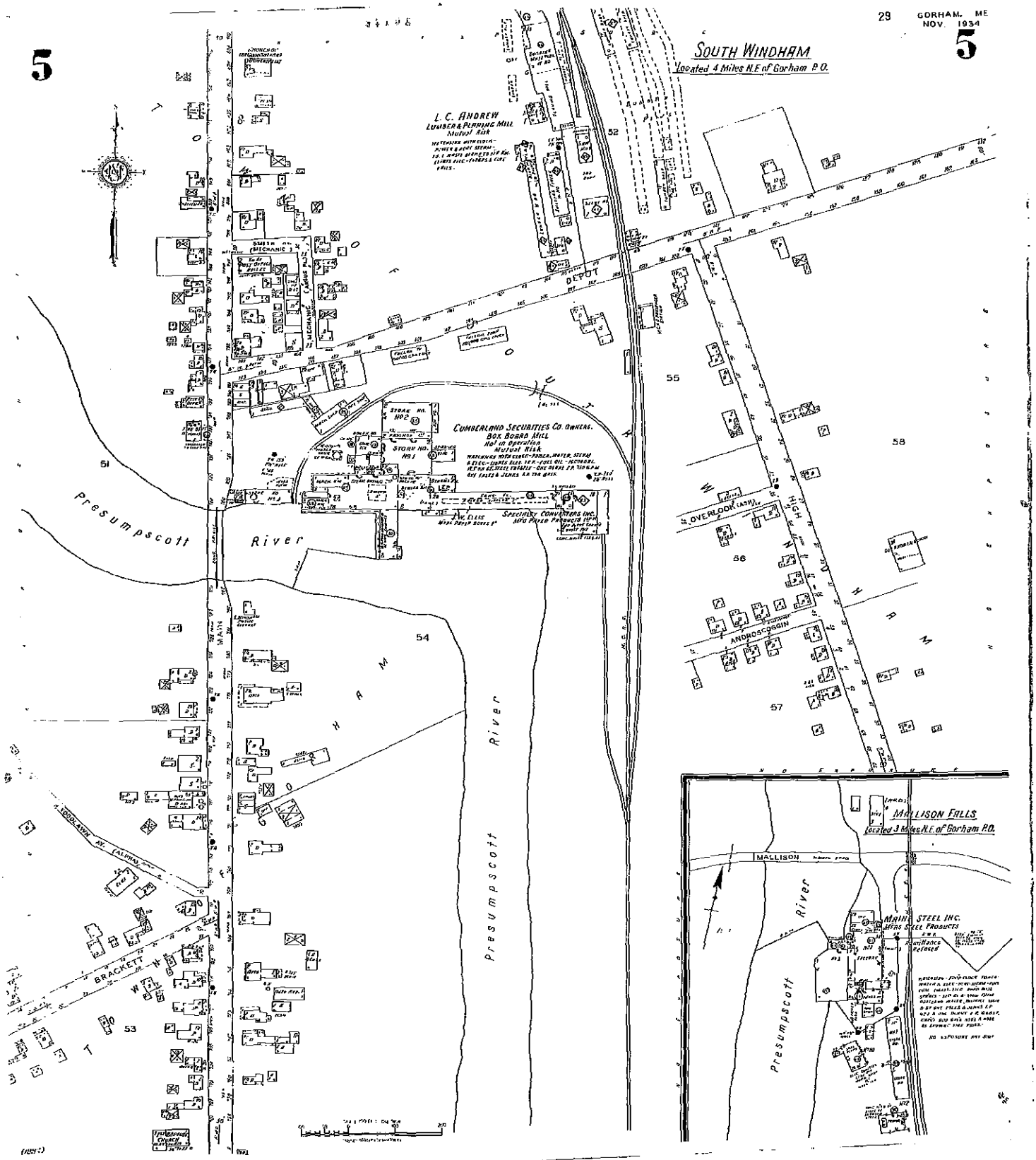


Appendix I

Sanborn Fire Insurance Maps


SOUTH WINDHAM
Located 4 Miles N.E. of Gorham P.O.
SCALE 100 FT. TO AN INCH
5
FEB. 1922
GORHAM
ME.
S. C. ANDREW
-BOX FACTORY-
DEPOT
ARGUS PL.
ASH
HIGH
ANDROSCOGGIN
MAIN
BRACKETT
Presumpscott
River
ANDROSCOGGIN PULP CO.
MFRS. OF GROUND WOOD PULP &
BOX BOARD
-Mutual Risk-
STORE No. 1
STORE No. 2
STORE No. 3
STORE No. 4
51
52
53
54
55
56
57
58
Scale 100 Ft. to One Inch.
MALLISON FALLS
located 3 Miles N.E. of Gorham P.O.
SCALE 100 FT. TO AN INCH
MALLISON
WINDHAM MFG. CO.
-WOOLEN MILL-
-Mutual Risk-
"NO EXPOSURE ANY SIDE"


5
GORHAM, ME.
NOV. 1934
5
SOUTH WINDHAM
Located 4 Miles N.E. of Gorham P.O.
L.C. ANDREW
LUMBER & MILLING MILL
MECHANICS
ORIENTAL HALL
DEPOT
ANDROSCOGGIN PULP CO.
MFRS OF GROUND WOOD PULP
BOX BOARD
-Mutual Risk-
STORE NO. 2
STORE NO. 1
STORE NO. 3
MACHINE SHOP
Presumpscott
River
MAIN
ASH
ANDROSCOGGIN
ALPHA
BRACKETT
51
52
53
54
55
56
57
58
MALLISON FALLS
Located 3 Miles N.E. of Gorham P.O.
MALLISON
WINDHAM MFG CO.
-WOOLEN MILL-
Mutual Risk


5
29
GORHAM, ME
NOV. 1934
5
SOUTH WINDHAM
Located 4 Miles N.E. of Gorham P.O.
L. C. ANDREW
LUMBER & PLANING MILL
Mutual Risk
DEPOT
CUMBERLAND SECURITIES CO. OWNERS.
Box Board Mill
Not in Operation
Mutual Risk
STORE NO. 1
STORE NO. 2
SPECIALTY CONVERTERS INC.
Mfg Paper Products
Presumpscott River
Presumpscott River
OVERLOOK (ASH)
ANDROSCOGGIN
BROOKLAWN AV. (ALPINE)
BRACKETT
51
52
53
54
55
56
57
58
MALLISON FALLS
Located 3 Miles N.E. of Gorham P.O.
MALLISON
MAINE STEEL INC.
Mfrs Steel Products
Presumpscott River

Appendix J

Previous Site Assessments

(2)

Consla Geotechnical Engineering, Inc.

- Geotechnical Engineering
- Site Exploration
- Environmental Engineering
- Geologic & Hydrogeologic Investigation

CONFIDENTIAL

18 March 1993
File No. 9323

Preti, Flaherty, Beliveau & Pachios
443 Congress Street
Portland, ME 04101

Attention: Mr. Harold C. Pachios

Subject: Phase I Limited Environmental Assessment
Lot No. 7 of Map 38
Windham Township
South Windham, Cumberland County, Maine

Dear Mr. Pachios:

As requested by Mr. Laurence Keddy, we have completed our Phase I Limited Environmental Assessment of the subject property. This assessment provides our professional opinion relative to the potential for subsurface site contamination from toxic and or hazardous waste materials. Environmental in the context of this report does not include an ecological evaluation of the resources of the site. Further limitations of this Phase I Limited Environmental Assessment are discussed in the attachment form. This report documents our findings and presents our preliminary level engineering conclusions.

I. HISTORICAL INFORMATION:

Location and Description: The subject property is located in Lot No. 7 of Map 38 in the Windham Township, Cumberland County, Maine. The property boundary survey referenced during this environmental assessment of the subject property was prepared for National Metal Converters and performed by Owen Haskell, Inc., and signed on June 19, 1974 by Mr. Steven S. Shaw State of Maine land surveyor registration no. 779.

The subject property is accessible from Main Street (Maine State Route No. 202) to the west, Depot Street to the north, the Maine Central Railroad line to the east, and the Presumpscot River to the south.

...1 Boylston St., Boston, MA 02116
No. 3 Blue Wave Mall Kennebunk, ME 04043

Tel. (617) 536-4434 FAX (617) 536-4464
Tel. (207) 985-4000. FAX (207) 985-9757

Available Town History: Based on our review of the township of Windham property assessor's record and base map, the subject property is currently owned by Mr. Lawrence J. Keddy and has been since 17 January 1978. National Metal Convertors of Windham, Inc. owned the subject property between 2 January 1975 and 17 January 1978. Mr. Lawrence J. Keddy owned the property between 16 May 1974 and January 1975. Park Corporation owned the subject property between 28 August 1973 and May of 1974. Grinnell Corporation owned the subject property between 17 October 1969 and August of 1973. Keddy Manufacturing Company owned the subject property between 6 June 1961 and October of 1969.

Drainage and Waterbodies: Based on our review of the 1952 Gorham, Maine U.S.G.S. Map (Figure 1), the subject property appears to slope south and west down-gradient to the Presumpscot River.

Based on our review of the Hydrogeological Survey of Significant Sand and Gravel Aquifers in Cumberland County, co-published by the U.S.G.S. and MDEP no mapped significant sand and gravel groundwater aquifers exist within the site area.

According to the Cumberland County U.S.D.A. soil survey, the subject property is likely composed primarily of cut and fill land which consists of excavated soil materials and bedrock from highways, airports and building sites that have been redistributed in adjacent areas to likely depths ranging from 2 to 15 feet. The materials consist of a mixture of sandy, clayey, silty, cobbly and gravelly material.

Because of the variability of the soil material at any one location, on-site investigation is needed to determine the type of material in-place. The northern adjacent property consists of scantic silt loam. This soil is wet throughout the year while permeability is moderate in the upper part of the horizon and slow to very slow in the lower part. Runoff is slow and available water capacity is high.

II. SITE OBSERVATION:

Structures: The main buildings within the subject property are as detailed in Figure 2 of the attachments. The following information is based on our site observations and review of the 1976 Town of Windham commercial properties appraisal report prepared by United Appraisals of East Hartford, Connecticut.

Building No. 1 (old manufacturing and offices) is a two-story building with a full basement constructed of concrete block and reinforced concrete framing totaling approximately 14,600 sq. ft. in area, and likely built in the 1920's.

Building No. 2 (forge and remelt shop) is a single-story, high roof, brick and concrete block building, approximately 9,300 sq. ft. in area, built in the early 1900's, remodeled in the 1960's.

Building No. 3 (old boiler house) is a single-story, high roof, brick building, approximately 4,700 sq. ft. in area, with a large slab, coal hopper, and smoke stack, all built in the early 1900's.

Building No. 4 (old melt building) is a two-story, reinforced concrete framed building, approximately 24,000 sq. ft. in area with two, 1,000 sq. ft., reinforced concrete framed out-buildings, all built in the early 1920's.

Building No. 5 (old storage and manufacturing) is a two-story, brick building 13,200 sq. ft. building and a one-story, reinforced concrete framed addition approximately 2,500 sq. ft. in area. The main building was constructed in approximately 1910.

Building No. 6 (old press building) is a one-story, steel frame building, approximately 4,800 sq. ft. in area, with a one-story, steel framed addition, approximately 1,600 sq. ft. in area apparently built in the 1960's.

Building No. 7 is a single-story, steel framed, overhead rail crane bay with no listed date of construction.

Our representative was accompanied by the building shop foreman, Mr. Bruce Crawford, and the following observations and comments regarding the subject facility are based on Mr. Crawford's site knowledge of the property history, and the observations of our representative during the site visits on 2 and 16 March 1993.

The first floor of Building No. 1 is currently in use as a small mechanical repair shop. The second floor is unoccupied office space. The basement portion of Building No. 1 is also unoccupied space previously utilized as a reinforcing steel manufacturing building. A large bay of 8 reinforced concrete above-ground tanks were observed in this area which were apparently utilized for cooling water storage.

Building No. 2 is currently unoccupied and contained two large, oil fired remelt furnaces and reinforcing steel manufacturing equipment.

Building No. 3 is currently unoccupied and abandoned due to a roof collapse. Therefore a walk-through of this portion of the subject building was not conducted due to the unstable condition of the structure and extensive snow cover within the interior portions of the building.

Building No. 4 is a large, two-story, 300-foot long section of the subject facilities that is currently unoccupied and utilized as storage space for a variety of heavy machinery related to the previous steel manufacturing operation, and mechanical equipment belonging to Mr. Lawrence Keddy. One large floor drain was observed in the basement portion of Building 4 along the southwestern end adjacent to the Presumpscot River. The outfall location is unknown. A large above-ground steel crane counterweight tank observed in the northeastern corner of Building 4 had been adapted for use as a fuel oil tank. The tank apparently is not currently in use and contains a small quantity of oily sludge in its bottom. Also observed within the basement portion of this facility were a number of mechanical metal hammer units founded upon a large reinforced concrete slab. Behind the hammers were large oily stains on the northern wall of the Building which were described as a bond breaker spray composed of oil and graphite. This material apparently was contained in small metal box tanks on the north wall and piped down to the mechanical hammer units.

Building No. 5 is currently unoccupied and in use as storage for mechanical equipment from the previous steel mill shop including a large steam generator on the first floor of the facility. The main heating fuel pump for the entire building was located in the northwest corner of Building No. 5 at its intersection with Building No. 4. This pump was located on the first floor, with a large petroleum stain residue around the perimeter of the pump system (all located on a concrete deck).

Building No. 6 is currently in use as a heavy equipment storage area. There were no visible signs of petroleum stains on the floor slab in this area.

Building No. 7 is a large, open-top rail crane bay. Included in the northwest corner of the bay was a large, round, 3,000-gallon, above-ground petroleum storage tank. The tank is constructed on a reinforced concrete slab with reinforced concrete walls on four sides. No floor drains are known to exist within the area. However it must be noted that during our walk-through of this area approximately 2-feet of snow cover was observed on and around the tank obstructing our view of

surficial conditions. Also observed within this area was a railroad spur branch of the Maine Central Railroad track located along the eastern boundary of the subject property.

Grounds: An attempt was made to walk-through the grounds of the subject property, specifically the substation pad site and above-ground fuel storage tanks site. However due to the extensive snow cover on-site at the time of our site visit a visual assessment of surfical conditions was not practicable.

Utilities: According to the shop foreman, Mr. Bruce Crawford, the subject buildings are serviced by an off-site water supply system and sewage is contained in two underground, 1,000-gallon holding tanks located near the southeast corner of Building No. 2. At the time of our site visit the sewage tank lines were reportedly frozen and not operational.

Heating and Fueling Systems: Building No. 1 of the subject facility is the only portion currently occupied and in use, and is heated by a fuel oil fired, forced hot air furnace. The fuel tanks for this area consist of small 275-gallon and 55-gallon fuel tanks located within the first floor portion of the building and constructed on a concrete slab. Also observed within Building No. 1 was a single 55-gallon drum used for waste oil. There were also a number of one-gallon and five-gallon gasoline containers within the shop area, utilized for small equipment fueling.

The remaining portions of the subject facility (Building Nos. 2 through 7) were not heated at the time of our site visit. However, the buildings heating fuel distribution system design apparently was as follows:

> The 10,000 and 15,000-gallon above-ground fuel tanks located in the northeast corner of the subject property are the primary sources of heating fuel. The distribution pipe system enters the building somewhere along the northeast corner presumably in the area of the fuel pump observed in the northeast corner of Building No. 4 adjacent to the old above-ground counterweight tank observed on the main floor. Once inside the building the fuel oil conduit runs along the north wall of Building No. 4 on the main floor, branching off into Building Nos. 1 and 2. Since Building No. 3 was abandoned due to the collapse of the roof and extensive snow cover no inspection of this area was made. The fuel source for Building Nos. 5 and 6 appears to be a 3,000-gallon above-ground tank located in the northwest corner of Building No. 7.

Adjacent Properties: At the time of our site visit the adjacent properties to the north across Depot Street, to the west across Main Street (Route No. 202), and to the east across the Maine Central Railroad line were all observed to be developed residentially with the following exceptions.

The northwestern outparcel of the subject site is developed with a large, two-story structure currently occupied by Patsy's Country Store and Video Rental and appeared to be developed residentially on the second story. There were two large propane tanks observed, above-ground, along the northeast corner of the building and no other fuel source was visible from the road.

The north central outparcel was observed to be developed residentially with a small manufactured home and at the time of our site visit no heating fuel tanks were visible from the road.

The northeastern outparcel of the subject property is developed as the Depot Energy Company a commercial vendor of coal and fuel oil. At the time of our reconnaissance we observed a large L-shaped, wood-frame building along the eastern boundary, a large rectangular, wood-frame building along the southern boundary, one large above-ground tank and two railroad cars along the western boundary of the Depot Energy outparcel.

The adjacent property west of the subject site across Main Street (Route No. 202) is the South Windham Fire Company truck storage building. An active underground fuel storage tank reportedly exists on this parcel, according to town officials.

The nearby adjacent property due north of Depot Energy across Depot Street is the New England Antigenetics facility and a large self-storage facility.

Historically Mr. Bruce Crawford recalled the Depot Energy property as utilized as the Maine Central Railroad loading house station. Furthermore, Mr. Crawford recalled that the New England Antigenetics and self-storge property were previously occupied by a large lumber mill and warehouse.

The adjacent abutters south and southwest of the subject property are the Presumpscot River, and the S.D. Warren Hydroelectric Plant located off of the southwest corner of Building No. 1 of the subject property.

Site Plan Review: The following information is based on our review of the site plan of the subject property dated June 1974 referenced above. The western access to the subject property off of Route No. 202 is noted as a gravel drive which branches off to the right along a 30-foot wide right-of-way into the main entrance of Building No. 1 and the S.D. Warren Hydroelectric Plant. The left hand branch of the drive runs north into a large gravel parking lot adjacent to Building No. 2 and accessible from Depot Street on two locations east and west of the residential outparcel. There are noted signs of building encroachment from the northwest outparcel onto the subject property.

A second gravel driveway enters the subject property from Depot Street along the western boundary of the northeast outparcel, which branches to the west into a small parking lot entering a large roll-up door located on the northeast corner of Building No. 2. The second branch extends along the eastern boundary around Building Nos. 5 and 7 accessing Building No. 5 on its northeast corner and Building No. 4 on its southeast corner. A large concrete foundation is noted adjacent to the Depot Street entrance of this drive as well as a small drainage ditch which appears to run east to west along the northern boundary with the northeast outparcel and into the catch basin.

Also noted on the site plan is a 24-inch culvert extending under the Maine Central Railroad near the northeast corner of the subject site and draining westward into the above mentioned drainage ditch and catch basin. Also noted in the southeast portion of the site was a small garage building approximately 270 feet south of Building No. 7 which was not observed during our site reconnaissance, possibly due to snow cover.

Also noted within the subject property was a large electrical substation located approximately 50 feet west of Building No. 6 and 100 feet south of Building No. 4 adjacent to the Presumpscot River. The main electrical lines run north and south parallel to the river. This substation structure was also not visible at the time of our site reconnaissance.

Aerial Photographs: Aerial photographs were examined utilizing 10X magnification to study the land use within and in the vicinity of the subject site to gather clues regarding previous activities or businesses that could have affected soil or ground water quality.

A 15 April 1986 photograph (with a scale of 1 in. = 1,000 ft.) shows the subject property and adjacent surrounding properties developed as observed during our site reconnaissance with the following exceptions. Four long rectangular objects and one large square object is visible near the northeast corner of Building No. 2. According to Mr. Crawford who also inspected

the aerial photographs, the rectangular object were trailer truck storage bins used for scrap metals and materials. The square object apparently is the old counterweight tank currently inside Building No. 4 and in use as a petroleum storage tank. Mr. Crawford also indicated that the old counterweight tank was not utilized as a petroleum storage tank when it was outside the facility.

Also observed in this area was a large square slab adjacent to Building No. 4 with material stored on top. According to Mr. Crawford the materials were scrap wood materials and fencing. The large rectangular concrete slab noted in the above mentioned plan survey review along Depot Street was visible. Mr. Crawford's indicated that the old slab was possibly the site of a shipping building during the early 1900's and later utilized a warehouse facility. The garage building noted on the site plan was not visible in this aerial photograph. However a small structure was visible just north of the old garage location which according to Mr. Crawford was a 40-foot box container used for storing heavy equipment, parts and tires. The small transformer pad observed adjacent to Building No. 4 during our site reconnaissance is visible as is the old substation pad. The adjacent surrounding properties appeared developed as observed during our site reconnaissance.

A 1 May 1976 aerial photograph (with a scale 1 In. = 1,000 Ft.) shows the subject property essentially developed as observed in the previous aerial photograph with the following exceptions. The roof of Building No. 3 did not appear to have collapsed at the time of this photograph. There are visible signs of stored materials adjacent to and north of Building No. 4 and adjacent to and east of Building No. 2 which are unknown with the exception of a large cylindrical object which Mr. Crawford indicated was a large propane fuel tank. A small gravel roadway accesses the subject site from the northeastern outparcel and runs along the eastern boundary. The garage building noted in the site plan review is visible in the southwestern quarter of the subject site and there are visible signs of unknown stored materials along the eastern side of the building. There are also a number of large unknown objects immediately south of Buildings No. 6 and 7.

The adjacent surrounding properties appear to be developed as observed during our site visit with the following exceptions:

> The two railroad cars, one above-ground tank and small rectangular building are not visible as noted during our site reconnaissance within the northeastern outparcel. The site appears to be in use for other purposes. There are a number of large square and rectangular objects where the building tank and railroad cars are located. These objects are currently unknown.

A 11 May 1962 aerial photograph (with a scale of 1 in. = 800 ft.) shows the subject property essentially developed as observed in previous aerial photographs with the following exceptions. The garage building in the southeast quarter is not visible in this aerial photograph and building No. 6 and 7 do not appear to have been built in 1962. The Building No. 6 and 7 area adjacent to the train track spur appears to be in use as a large storage area of unknown materials as well as a number (4 or 5) of small square structures also unknown. This area does not appear to be paved. The large 3,000-gallon petroleum tank is not visible nor are the 10,000 and 15,000-gallon tanks observed in previous aerial photographs adjacent to and northeast of Building No. 5. The substation pad site is clearly visible southwest of Building No. 5 and a drainage ditch running down to the river's edge appears to emanate from the southeast end of Building No. 4. An additional large building pad is visible north of Building No. 2 adjacent to Depot Street. There is also a large unknown rectangular object on the concrete pad adjacent to and north of Building No. 4 as well as a smaller square structure at the location of the current underground holding tanks. The small electrical transformer pad is not visible adjacent to and south of Building No. 4.

The adjacent surrounding properties appear essentially unchanged from previous aerial photographs with the following exceptions. The adjacent northeastern outparcel is developed with only one building (the smaller portion of the L-shaped building observed previously). There are a number of large square objects within the southern portion of this outparcel as previously observed and approximately 50 to 60 automobiles parked within the property. Also clearly visible in the northern adjacent undeveloped track of land across Depot Street is a large south drainage ditch terminating at Depot Street. According to Mr. Crawford this drainage ditch flows into an underground culvert constructed under the subject property and Building No. 4 and terminates in the Presumpscot River. However the outfall was not visible at the time of our site reconnaissance. The southern adjacent Hydroelectric Plant building is not visible in this photograph and only the dam structure appears to be in place.

The 2 June 1953 aerial (with a scale of 1 in. = 2,640 ft.) shows the subject property developed as observed in previous aerial photographs with the following exceptions. There is a large rectangular extension of Building No. 1 along the Presumpscot River extending west of the main building towards Route No. 202 as well as a large rectangular extension of Building No. 2 northward towards Depot Street. There is a large stand of trees visible in the western quarter of the subject property adjacent to the northwestern outparcel and Route 202 which obstructs the view of this area. There are no structures visible in the area of the old garage however there is a circular drive extending out into this section of the subject property. There are a

number of small square objects located along the edge of the property line separating the Maine Central Railroad and the subject property which are unknown and the above-ground fuel tanks observed during our site reconnaissance are not visible in this aerial photograph.

The adjacent northeastern outparcel does not appear as intensively developed as observed in previous aerial photographs. It contains two small unknown structures. The remaining portions of the subject property and surrounding adjacent properties appear essentially unchanged from previous aerial photographs. However due to the scale of this aerial photograph much of the detail visible in previous aerial photographs is not visible.

An undated oblique aerial photograph provided by Mr. Keddy, view the subject property north-northeast from across the Presumpscot River. It shows the site developed as observed in the 1962 aerial photograph. There is a small low roof structure off the south side of Building No. 5 in the current location of Building No. 6. There is also a small sandbar in the Presumpscot River downhill from the substation site. There are no visible signs of an outfall along the southern side of Building No. 4.

Interviews: Based on our conversation with Mr. Lawrence Keddy and Mr. Bruce Crawford at the time of our site reconnaissance the subject property was the site of a paper mill during the early to mid-1900's. Then during the early 1960's for a short period the site was occupied by the Maine Steel Company who manufactured steel buckets for loaders and heavy equipment. The site was then occupied between the late 1960's and early 1970's by Grinnell Corporation, a subsidiary of ITT. Grinnell Corporation manufactured sprinkler pipe materials within the subject building. Then during the mid 1970's the site was occupied by Park Corporation a heavy equipment liquidator who was responsible for selling most of the heavy equipment previously owned by Grinnell Corporation. And finally the site was occupied by National Metal Converters of Windham (aka New England Steel Company) between 1975 and 1978 when Mr. Keddy took possession of the property.

Regulatory Record Review: Based on our review of the CERCLIS (Hazardous Waste Discharges) list and RCRA (Hazardous Waste Generator) list published by the U.S. EPA for the State of Maine (9 and 10 February 1993) the subject property is not currently listed. However the northern adjacent property across Depot Street is the site of New England Antigenetics listed as a small quantity generator. Small quantity generators are producers who generate 100 kilograms per month but less than 1,000 kilograms per month of non-acutely hazardous waste.

Based on our review of the Maine Department of Environmental Protection (MDEP) spill report list dated 10 February 1993 neither the subject site nor the adjacent surrounding properties have had reported on-site petroleum releases.

Based on our review of the MDEP Bureau of Oil and Hazardous Materials Control Division list of all locations reported, there are no listed discharges within or in the vicinity of the subject property.

At the request of Mr. Lawrence J. Keddy our regulatory record review did not include direct contact with MDEP relative to the subject property, the adjacent Depot Energy Company or New England Antigenetics.

III. POTENTIAL SITE CONTAMINATION:

Lead Based Paints: A review of the subject facilities relative to potential sources of lead based paints (LBP's) was not conducted since current state and federal regulations addressed LBP'S only in commercial building where exposure to children is possible (e.g. schools and daycare centers).

Asbestos Containing Materials: Under the clean air act of 1970 the EPA has been regulating many asbestos containing materials (ACM'S) which by EPA definition are materials which have more than one percent asbestos. In the mid-seventies, several major kinds of asbestos containing materials, such as spray applied insulation, fireproofing and acoustical surface materials were banned by the EPA because of growing concern of health effects (particularly cancer) associated with exposure to such materials.

Based on information obtained during this assessment regarding the age of the subject facility a review of the potential asbestos containing materials is considered necessary.

A number of areas of concern relative to potential asbestos containing materials were observed during our site reconnaissance. Specifically visibly friable steam line insulation throughout Building No. 4, acoustical ceiling tile in Building No. 1 and resilient flooring. Transit panel roofing in Building No. 6.

This limited asbestos survey is intended as an assessment of the current accessible and visible interior materials of the subject facility and is based on the current condition and suspected age of the materials. It is not an inspection, sampling and testing program designed to account for all potential asbestos containing materials within the subject facility. Furthermore it does not address potential asbestos containing materials within site machinery, equipment, generators, furnaces, holding tanks, and so forth.

We recommend that a comprehensive asbestos inspection and testing program be implemented within the subject facility and on-site equipment and machinery.

IV. CONCLUSIONS:

The subject site is currently developed as a large industrial facility as detailed in Figure No. 2. A portion of the facility is currently utilized as a machine shop. The subject property was developed in the early 1900's as a paper mill and during its lifetime has been utilized as a steel mill and forging shop, manufacturing steel sprinkler pipes, heavy equipment parts and concrete reinforcing steel.

Based on our observations during our site reconnaissance, our review of city records, regulatory agency lists, historical aerial photographs and site interviews there is potential concern of site soil contamination that may require remediation.

Furthermore there are a number of areas of concern within and in the vicinity of the subject property that would require more detailed investigation relative to their potential for surficial and subsurface contamination of the subject property.

1. Based on our conversations with Mr. Keddy and Mr. Crawford there is known petroleum contamination around the 10,000-gallon above-ground petroleum tank. However due to snow cover the area was not visible at the time of our site visit.

2. The location and condition of the fuel lines from the above-ground 10,000 and 15,000-gallon fuel tanks is unknown. Further investigation of their location and condition is recommended.

3. A garage building existed in the 1970's in the southeastern quarter of the subject property. Further inspection as well as subsurface investigation is recommended relative to activities in this area.

4. The old substation pad and transformer pad adjacent to Buildings Nos. 5 and 6 require further inspection and subsurface investigation relative to potential contamination from Polyclorinated Biphenyls (PCB's).

5. The 10,000-gallon and 15,000-gallon above-ground fuel tanks were not observed in the 1953 and 1962 aerial photographs, and the source of fuel for the subject site then is unknown. Furthermore it is believed that the coal burning plant (Building No. 3) was not operational during this period. We recommend further investigation into the source of fuel utilized during this period and the location of fuel storage.

6. An unknown structure observed in the 1962 aerial photograph adjacent to and north of Building No. 4 requires further inspection and subsurface investigation relative to potential sources of contamination and underground structures.

7. The outfall location of the large floor drain observed in the basement area of Building No. 4 is unknown. Further investigation is required.

8. Access to Building No. 3 was not possible due to the collapse of the roof and extensive snow cover within the facility. A complete walk-through of this portion of the subject property as well as the remaining snow covered areas of the site is recommended once the snow cover has melted.

9. A complete regulatory record review of the nearby Depot Energy Company site and New England Antigenetic site is recommended.

V. CLOSURE:

This review has been performed for your use in connection with the property on Maine State Route No. 202 in South Windham, Maine. The conclusions of Consla Geotechnical Engineering, Inc. are based upon the scope of work described herein and the referenced sources of information in accordance with generally accepted environmental engineering practice. Any additional pertinent information which becomes available concerning this site should be provided to CGE for review in order that our conclusions can be revised as necessary.

Thank you for selecting us to perform this study. If you should have any questions or require additional information, please contact us.

Sincerely yours,
Consla Geotechnical Engineering, Inc.

John A. Consla (KS)

Keith A. Wallace
Staff Engineer

John A. Consla, P.E.
President

Enclosures: Fig. No. 1 - U.S.G.S. Quadrangle Map
Fig. No. 2 - General Site Plan

ENVIRONMENTAL SITE ASSESSMENT - PHASE I & II
FORMER STEEL MILL PROPERTY
ROUTE 202 AND DEPOT STREET
WINDHAM, MAINE

95-499 E & 95-499.1 E November 17, 1997

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S.W.COLE
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GEOTECHNICAL CONSULTANTS

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95-499 E & 95-499.1 E

November 17, 1997

Mr. George Wood
78 Cressey Road
Gorham, ME 04038

Subject: Environmental Site Assessment - Phase I & II
Former Steel Mill Property
Route 202 and Depot Street
South Windham, Maine

1.0 INTRODUCTION

In accordance with our Proposal dated August 17, 1995, and signed by you on December 05, 1995, and our amendment to proposal dated November 15, 1995, and signed by you on December 16, 1995, we have completed a Phase I and II environmental site assessment of the site.

1.1 Scope of Services - The scope of services is summarized below. Our environmental site assessment included five components:

1) Records Review
2) Interviews
3) Site Reconnaissance
4) Exploration and Testing
5) Report Preparation

Barnard-Marquit Corporation provided copies of appraisals and deeds related to the site for our review. Further details of the components are presented below.

1) **Records Review** - We reviewed records from the sources listed

Standard Environmental Records

Environmental Protection Agency (Boston, MA)

- NPL Site List (1.0 Mile Radius - 11/30/93)

- CERCLIS List (0.5 Mile Radius - 10/06/95)
- RCRA Generators List (Site and Adjoining Properties - 10/10/95)
- RCRA TSD Facilities List (1.0 Mile Radius - 10/03/95)
- ERNS List (Site Only - 04/25/95)

Maine Department of Environmental Protection (Augusta, Maine) Bureau of Hazardous Materials and Solid Waste Control

- Solid Waste Facility List (0.5 Mile Radius - 3/11/92)
- Underground Storage Tanks (10/10/95)
  - Removed (0.5 Mile Radius)
  - Registered (Site and Adjoining Properties)
- Spill Reports (0.5 Mile Radius)
- Division of Site Investigation and Remediation Uncontrolled Hazardous Substances Sites Program List (1.0 Mile Radius - 05/31/95)

Physical Setting

Maine Geological Survey

- Sand and Gravel Aquifer Map
- Freshwater Wetlands Map
- Surficial Geologic Map
- Bedrock Geologic Map of Maine

Natural Resources Conservation Service

- Soil Survey Map

United States Geological Survey

- Topographic Map

Historical Use Information

Aerial Photographs - We obtained three sets of historic aerial photographs dated from the 1950's to the 1990's from the following source:

- James W. Sewall Company (Old Town, Maine)

Town of Windham Municipal Offices

- Assessment Records
- Code Enforcement File
- Attempted an Interview With Fire Department

Cumberland County Registry of Deeds (Portland, Maine)

- Deeds From Present Back About 50 Years
- Environmental Liens
- Maps Showing the Site

Windham Public Library

- Historical References

Windham Historical Society

- Historical Maps and Records

USM Library (Portland, Maine)

- Sanborn Fire Insurance Maps

2) **Interviews** - We conducted interviews with persons knowledgeable about the site, including owners and/or users of the property and local officials, with regard to:

- History of Site Uses
- Possible Hazardous Substances or Petroleum Used or Released on the Site or Nearby
- Waste Disposal at the Site
- Site Conditions

3) **Site Reconnaissance** - We physically observed the property. Our assessment included a tour of existing building interiors and a walk of the property. We reviewed site features and took photographs to support our observations of environmental conditions. We did not include a lead-based paint survey, radon testing, asbestos survey or wetlands evaluation as part of the scope of services.

4) **Exploration and Testing** - We coordinated the making of twenty-five test pit explorations at the site. The explorations were made to observe subsurface soil conditions and to obtain soil samples for on-site field testing and laboratory analytical testing. Selected soil samples from the test pit explorations were screened in the field for volatile organic compounds using a PID (Photoionization Detector).

   Selected soil samples from the test pit explorations were also submitted to an independent laboratory for analytical testing. The samples were tested to include the following parameters: heavy metals, volatile organic compounds, total petroleum hydrocarbons and polychlorinated biphenyls (PCB's).

5) **Report** - We hereby present our written report, which includes our findings, conclusions, and supporting documents.

1.2 Purpose - This assessment was conducted in order to provide an indication of the potential for environmental contamination of the property by petroleum and hazardous substances from previous uses of the site and adjoining properties.

1.3 History - S. W. COLE ENGINEERING, INC. was retained by George Wood in Late 1995 to conduct the environmental services outlined in Section 1.1 in anticipation of a potential purchase of the property. We conducted the work in late 1995 and early 1996. We did not issue a report at that time because the proposed sale of the site was suspended. The use of the site and adjacent properties has not significantly changed since we provided the services indicated in Section 1.1 (Wood, G. 1997). We recently walked the property to review site features and conditions noted by us in 1995 and 1996.

1.4 Limitations - This report is subject to the limitations included in Appendix A.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description - The site consists of six interconnected structures with adjacent yard and forested areas on 6.5± acres in the village of South Windham, Maine. The site is on Route 202 and Depot Street (see Appendix B, Sheet B-1) and is designated on the Town of Windham Property Map 38 as Lot 7. A plan that illustrates site features that we observed is attached in Appendix B as Sheet B-2. Color copies of photographs of features at the site are presented in Appendix C. A legal description of the site is attached as Appendix D.

2.2 Current Uses of the Site - The first floor of the "Manufacturing and Office Building" is used as a machine shop (Crawford, B. 1995). The remaining structure space on the site is used for the storage of metal used in the machine shop, for the storage of equipment

associated with a former steel manufacturing operation on the site, and for the storage of farm equipment (Crawford, B. 1995).

2.3 Description of Structures and Utilities - Six large interconnected structures were on the site. The first was a two story, concrete structure with a full basement built in 1920± and known as the "Manufacturing and Office" building (United Appraisal, 1976). The second structure was called the "Forge Shop". This was a high, one story brick building and was connected to the north side of the Manufacturing and Office building. The Forge Shop was built in 1900± (United Appraisal, 1976). The third structure was a high, one story building with the roof missing known as "The Old Boiler House". This structure was connected to the west side of the Forge Shop and was built in 1900± (United Appraisal, 1976). The fourth structure was two stories, concrete and called the "Melt Building". This structure was connected to the east side of the "Manufacturing and Office Building" and was built in 1920± (United Appraisal, 1976). The fifth structure was two story, brick and called the "Storage and Manufacturing Building". The structure was connected to the southeastern corner of the "Melt Building" and was built in 1910± (United Appraisal, 1976). The sixth structure was one story, steel framed and called the "Press Building". The structure was connected to the south end of the "Melt Building" and was built in 1950± (United Appraisal, 1976).

Water to the site is supplied by the Portland Water District (Crawford, B. 1995). Sewer disposal consists of a holding tank that is periodically pumped out (Crawford, B. 1995). Electrical service is supplied by Central Maine Power Company (Crawford, B. 1995).

2.4 Site and Vicinity Characteristics - The site is part of an urban residential and historic industrial area. The operation of manufacturing mills at the site has been documented as far back as the 1700's. Single and multi-unit residential housing exists

northwest and east of the site. A railroad line is located east of the site. An automobile repair facility and building supply company are located north of the site, while a hydroelectric generating facility is adjacent south of the site.

2.5 Past Uses of the Site - The site has historically been used for industrial purposes. A sawmill existed on the site in 1756 and was succeeded by a small grist mill and small carding mill (Dole, S. 1909). A large pulp mill built on the site in 1875 manufactured "wood board" (Dole, S. 1909). A steel manufacturing facility was later operated at the site and ceased operation in 1977 (Crawford, B. 1995). A post office was formerly on the site adjacent to Route 202 (Bartow, B. 1995 and Beers Atlas, 1871).

2.6 Past and Current Uses of Adjoining Properties - The property adjacent to the site in an easterly direction is a Central Maine Railroad right-of-way and has been a railroad right-of-way since at least 1871 (Town of Windham, 1995 and Beers Atlas, 1871). The adjacent property northeast of the site is now or formerly a coal and fuel oil business (Town of Windham, 1995 and Timmons, R. 1995). A railroad depot existed on the property in 1871 (Beers Atlas, 1871). The small lot bordering the site in a northerly direction is now and was formerly used for residential purposes (Crawford, B. 1995). The adjacent property northwest of the site is currently a market/restaurant that also contains residential housing. It was the site of tenement housing and a tavern in the 1800's (Dole, S. 1896 and Bartow, B. 1995). The property adjacent to the site in a southerly direction is now and formerly has been a hydroelectric generating facility (Town of Windham, 1995 and Googins, A. 1995). A dam existed on that property as early as 1871 (Beers Atlas, 1871).

A list of current landowners who bound the site is presented in Table 1 (Town of Windham, 1995).

Table 1
Adjacent Landowners

Owner	Relative Location From Site	Map and Lot
Merrill & Carmella Laskey	NE	Map 38, Lot 6
Trustees of Freida and James Deane	N	Map 38, Lot 8
William and Patricia Dilios	NW	Map 38, Lot 9
S.D. Warren Co.	SW	Map 38, Lot 10
S.D. Warren Co.	W	Map 38, Lot 8A
Central Maine Railroad	E	Map 38, Lot 3B

3.0 RECORDS REVIEW

3.1 Standard Federal and State of Maine Environmental Record Sources - We obtained and reviewed records and databases from the U.S. Environmental Protection Agency (EPA) and the State of Maine Department of Environmental Protection's (DEP) Division of Site Inspection and Remediation (DOR) Bureau of Remediation and Waste Management (BRWM).

3.1.1 EPA Lists - We reviewed the EPA's National Priorities List (NPL); CERCLIS List; RCRA Treatment, Storage, and Disposal (TSD) List; RCRA Generators List, and the Emergency Response Notification System (ERNS) for facilities listed within the radii noted in Section 1.1. We did not find any listed facility.

3.1.2 Uncontrolled Hazardous Substances Sites Program List - We reviewed the

DEP BHMSWC Uncontrolled Hazardous Substances Sites Program List for the Town of Windham. We found one facility listed within a 1.0 mile radius of the site. The Maine Correctional Center on River Road is located 3/4 mile east of the site. The facility was listed as having a status of "no action" by the Federal Government, and "no further action" by the State of Maine.

3.1.3 Solid Waste Facility List - We reviewed the DEP BRWM Solid Waste Facility List. Two solid waste facilities were listed for the Town of Windham, but both were greater than 4.0 miles northeast of the site.

3.1.4 BRWM Registered and Removed Underground Storage Tanks (UST's) - We reviewed a list of BRWM Registered UST's for the Town of Windham. We did not find registered UST's listed for the site. One (1) 550 gallon capacity gasoline UST was listed as registered for the Energy Depot, the adjacent property northeast of the site. Several registered UST's were listed for properties within 0.5 mile of the site.

We reviewed a list of BRWM Removed UST's from the DEP for the Town of Windham. We did not find removed UST's listed for the site. A 3000 gallon capacity UST containing an unknown product and a 500 gallon capacity UST containing gasoline were listed as removed from the Energy Depot property. We found several UST's listed as removed for properties within 0.5 mile of the site. Appendix E contains a list of registered and removed UST's for the Town of Windham.

3.1.5 Spill Reports - We reviewed Oil and Hazardous Materials Spill Report records for facilities located within approximately 0.5 mile of the site and found one spill report for an incident that occurred at the site. Spill report P-206 for 1994 indicated that #6 oil was discovered adjacent to the site in a concrete storm drain junction box on Depot Street.

The possible source of the oil was attributed to storage tanks at the site. The spill report also documents eleven storage containers at the site in 1994 that contained approximately 4370 gallons of #2 fuel oil, #4 fuel oil, #6 fuel oil and oil/water mixtures. We found several spill reports for incidents that occurred within 0.5 mile of the site. These incidents are summarized in Table 2.

Table 2

Spill #	Facility	Description	Location From Site
P-462-86	Ballard Oil	Investigation of abandoned UST's	1/2 Mile S
P-463-86	Clean-O-Rama	Investigation of abandoned UST believed to be approximately 20 years old	1/10 Mile S
P-246-88	28 Depot Street	Spill of #2 fuel oil in basement of house. 6200+ gallons of oil and water removed, 2 to 4 yd^3 contaminated soil landspread near house	1/8 Mile NE
P-257-91	Lampron's Mini-Mart	Contaminated soil discovered during removal of UST's. Contaminated soil removed and landspread at Gorham Public Works Garage	1/4 Mile S

Copies of the spill reports are included in Appendix F.

3.2 Physical Setting - We obtained and reviewed published maps from the Maine Geological Survey (MGS), the USDA Natural Resources Conservation Service (NRCS), and the USDI Geological Survey that include the area of the site.

3.2.1 MGS Maps - According to the MGS Sand and Gravel Aquifer Map, the closest mapped sand and gravel aquifer to the site is approximately 0.6 mile to the southeast. Although no sand and gravel aquifers were mapped for the site, unmapped sand and

gravel aquifers may be present that did not meet the criteria used by the MGS.

According to the MGS Freshwater Wetlands Map, no freshwater wetlands exist on or near the site. Unmapped wetlands may be present that did not meet the criteria used by MGS.

According to the MGS Surficial Geologic Map, the area of the site is mapped as glacial till. Glacial till is a heterogeneous mixture of sand, silt, clay and stones.

According to the MGS Bedrock Geologic Map of Maine, bedrock in the area of the site is mapped as interbedded pelite and sandstone of the Waterville formation.

3.2.2 NRCS Soil Survey - According to the Soil Conservation Service (now the NRCS) Soil Survey Map of Cumberland County, the soils at the site are mapped as cut and fill land and scantic silt loam.

3.2.3 USGS Topographic Map - The site is on the USGS 7.5 Minute Gorham, Maine Quadrangle Topographic Map. According to this map, the site is within a primarily populated area that slopes to the south and west towards its border with the Presumpscot River.

3.3 Historical Use Information - We reviewed historic aerial photographs and land title records that cover the area of the site. We also researched historic publications at the Windham Public Library and historic maps and records at the Windham Historical Society. We searched for additional sources such as historic assessment records and Sanborn Fire Insurance Maps, but they either do not exist or were unavailable.

3.3.1 Review of Aerial Photographs - We obtained and reviewed three sets of aerial photographs that cover the area of the site from the James W. Sewall Company of Old Town, Maine.

1953 Set of Aerial Photographs - This black and white set of aerial photographs (1" = 2000'), dated June 2, 1953, showed the site to be on the northerly side of the Presumpscot River. Route 202 (Main Street) was visible as a north - south oriented road west of the site. The bridge on Route 202 connecting Windham to Gorham was visible over the Presumpscot River. Depot Street was visible as a west - east oriented road bordering the northern end of the site. Several large, interconnected buildings were on the site. Three of the structures partially bordered on the Presumpscot River. The eastern most structure was bordered to the east by a set of railroad tracks that ran north to south. A rectangular structure visible in the river adjacent to the site is known to be a hydroelectric generating facility. The ground cover in northern and western sections of the site appeared to be mostly gravel. A few trees were adjacent to Depot Street. The southeastern end of the site appeared mostly grassed with a few large trees. Two dirt trails connected the southern most structure on the site with the southeastern end of the site.

Properties in the site vicinity along Route 202 appeared mostly residential. Large tracts of agricultural property were approximately 1.0 mile west and 1.0 mile east of the site.

1976 Set of Aerial Photographs - This black and white set of aerial photographs (1" = 1000'), dated May 1, 1976, showed that the southwestern most interconnected structure seen on the site in the 1953 photographs no longer existed. The area occupied by the structure now appeared vacant and void of vegetation. The northern most interconnected structure also was no longer visible. The area occupied by that structure now appeared

vacant and grassed. The remaining structures on the site appeared much as they did in 1953. Four railroad cars were on the tracks southeast of the site.

A rectangular shaped structure was parallel to the railroad tracks in a grassed area at the southeastern end of the site. Our research indicates that the object was a garage. Several small piles were north of the buildings on the site. Two unpaved roads extended onto the site from Depot Street and ended at the eastern end of the site near the railroad tracks. No vehicles were visible on the site.

1995 set of Aerial Photographs - This black and white set of aerial photographs (1" = 1000'), dated April 25, 1995, showed the site much as it did in the 1976 set of aerial photographs. Exceptions were that the roof of the western most structure on the site was not present, and the garage seen at the southeastern end of the site was gone. Two box trailers were on a gravel parking area west of the buildings on the site.

3.3.2 Land Title Records - We reviewed site ownership records supplied to us by Barnard-Marquit Corporation. We reviewed additional records at the Cumberland County Registry of Deeds in Portland, Maine. The site is now or formerly owned by Barnard-Marquit Corporation. Past owners of the site and date of transfer include those shown in Table 3.

Table 3
Site Ownership

Owner	Year of Transfer
Lawrence J. Keddy	1993
National Metal Converters	1975
Lawrence J. Keddy	1974

Park Corporation	1973
Grinnell Corporation	1969
Keddy Manufacturing Co.	1961
Atlantic Mills, Inc.	1954
Fox	1953
Weiland	1953
Maine Steel	1945
Windham Fibres, Inc.	1945
Cumberland Securities Corporation	1940
Androscoggin Pulp Co.	1900

3.3.3 Windham Public Library - We reviewed historical references at the Windham Public Library. A sawmill was built on the site by Major William Knight sometime prior to 1756 (Dole, S. 1909). The sawmill was successful for many years, and then the site remained unoccupied for a number of years except for two small buildings erected by Jonathan Andrew (Dole, S. 1909). One of the buildings was used as a grist mill and run by William Johnson, while the other building was a carding mill operated by Leonard Bacon and afterwards by Lathrop Crockett (Dole, S. 1909). In 1875, the water power rights on both sides of the Presumpscot River were purchased by C.A. Brown and Company, who built a large mill made of brick on the site and manufactured a product called "Wood Board" (Dole, S. 1909). Shortly after the death of Mr. Brown, the property was purchased by the Androscoggin Pulp Company, who "erected a large addition to the old mill, built of concrete and iron, have furnished it with the latest and most approved kinds of machinery, and give steady employment to a large number of workmen" (Dole, S. 1909).

3.3.4 Windham Historical Society - We reviewed historical records and maps at the Windham Historical Society. William Knight had a sawmill on the site that was built sometime prior to 1756 (Dole, S. 1896). The mill operated until 1822, when a company from Portland purchased the falls on both sides of the Presumpscot River, built a new dam, and constructed a large cotton mill opposite the site in Gorham (Dole, S. 1896). In the succeeding years, a small grist mill and small carding mill operated on the site (Dole, S. 1896). In 1846 or 1847 another sawmill was built on the site by I. Leighton and Freeman Harding. The sawmill operated for 5 or 6 years before being dismantled and rebuilt down river (Dole, S. 1896). The site then remained vacant until 1875, when a large mill built of brick was constructed by C.A. Brown & Co. for the manufacture of Wood - Board (Dole, S. 1896).

A map of the site titled: "Little Falls, Towns of Windham and Gorham", published by Beers Atlas, indicates that the site was vacant in 1871. Depot Street north of the site was designated as Cross Street in 1871. Three structures are shown bordering the north side of the site along Cross Street. They are designated as a carriage manufacturing shop belonging to F.A. Cloudman, a "proprietary" belonging to A. Johnston, and a residence belonging to W. Bickford. A structure designated as a Post Office is shown adjacent to Main Street at the west end of the site. Railroad tracks of the "Portland & Ogdenburg R.R." are shown bordering the site in an easterly direction. A dam is shown in the Presumpscot River adjacent to the site in a southerly direction.

4.0 SITE RECONNAISSANCE AND OBSERVATION OF HAZARDOUS SUBSTANCES

4.1 Site Reconnaissance - We made a site reconnaissance on September 26, 1995 and October 20, 1995. We were accompanied on a tour of the structures by Mr. Bruce Crawford, who is employed by Barnard-Marquit Corporation. A site features plan is

attached as Sheet B-2.

4.1.1 Structures and Yard - The main access road to the site was a gravel drive leading east from Route 202 at the western end of the site. The gravel drive also was part of a 30 foot wide right-of-way that allowed access to the hydroelectric generating plant located on the Presumpscot River adjacent to the site. A northerly branch of the drive allowed access to the site from Depot Street. The portion of the site north and west of the gravel drive was mostly grassed with a few large trees. The drive ended at the west end of the Manufacturing and Office building. A remnant brick wall was south of the drive adjacent to the Presumpscot River. The wall was part of a mill building that burnt in the 1950's (Crawford, B. 1995). A metal water valve and metal pipe were north of the drive adjacent to the west side of the Old Boiler House. The valve and pipe were remnants of a fire hydrant system that serviced the mill buildings (Crawford, B. 1995). A large, circular brick chimney was adjacent to the west side of the Old Boiler House. A pile of asphalt roofing debris and a remnant concrete foundation wall were near the base of the chimney. The north end of the site between Depot Street and the mill buildings was mostly grassed and relatively flat. A steep, down gradient slope to the south existed adjacent to the north sides of the Old Boiler House and the Forge Shop, and approximately 120 feet north of the Melt Building. Fill materials including metal pieces, wood, slag, bricks and flattened metal drums were visible on the sides of the slope areas. A concrete pad and a remnant concrete wall were north of the Old Boiler House. A circular area approximately 6 feet in diameter and void of vegetation was north of the Forge Shop.

A concrete pad and pieces of steel rebar were in the ground northeast of the Forge Shop.

The area between the north side of the Melt Building and the base of the slope was partially concrete paved and relatively flat. We observed the following features in this

area: a storm drain covered with a metal grate, a concrete culvert, farm equipment, steel beams, a metal tank, a concrete tile in the ground, a remnant concrete pad, an old wagon and a steel loading dock.

A gravel road with a gate across it led from Depot Street at the northeast corner of the site to a concrete loading dock on the north end of the Storage and Manufacturing Building. Metal bins, a concrete pier, a brick fill pile, several metal drums and a metal pipe were west of the road. The metal bins were used for transporting steel billets inside the steel mill (Crawford, B. 1995). A metal water valve and a metal culvert were east of the road. A concrete retaining wall and a concrete tile were west of the Storage and Manufacturing Building loading dock. A branch of the gravel road led around the east side of the Storage and Manufacturing Building. Three concrete cradles were west of the branch road. The cradles supported former above ground storage tanks that contained oil (Crawford, B. 1995).

The road continued to the south end of the Press Building. A large steel frame structure was adjacent to the east side of the Press Building. The structure was an overhead hoist used for unloading scrap steel from railcars (Crawford, B. 1995). The scrap steel was melted down in the steel mill and re-forged into steel billets (Crawford, B. 1995). An old rail spur was below the hoist and entered the open south end of the Storage and Manufacturing Building. Several small railcars were on the rail spur inside the building. Two empty 55 gallon capacity metal drums were adjacent to the southeast corner of the Press Building. A pole-mounted transformer was south of the Press Building. A concrete walkway adjacent to the west side of the Press Building ended at a door on the south side of the Melt Building. The basement of the Melt Building was built partially over the Presumpscot River. A sump in the concrete floor had river water running through it. The basement floor rested directly on ledge (Crawford, B. 1995). Several piles of steel billets

were on the floor. The first floor, (mid level) of the structure, contained a compressor room. Several one quart cans of motor oil were in the room. A large hammer for forming steel was also on the first floor. The second floor (upper level) of the Melt Building was used for storage. We observed items including: steel, farm equipment, a truck, a generator, a furnace, 55 gallon capacity plastic barrels, containers of hydraulic fluid, steel melting pots and other steel manufacturing equipment. A pile of metal fencing was between the walkway and the Press Building, and an obsolete utility pole was west of the walkway. The first and second floors of the storage and manufacturing building were used for the storage of miscellaneous items associated with the former steel mill including: steel, bricks, wood and machinery.

An electrical substation consisting of three large transformers on a concrete pad inside a metal fence was adjacent to the Melt Building west of the walkway. The substation formerly supplied electricity to the steel mill, but is no longer in use (Googins, A. 1995). The Presumpscot River flows beneath the Melt Building west of the substation. Overhead utility lines entered the south side of the Melt Building near the substation. The utility lines were on poles that were on the southeast bank of the Presumpscot River on property adjacent to the site. A remnant concrete pad and a debris pile containing bricks, concrete pieces and metal was below the utility lines on the adjacent property.

The first floor of the Manufacturing and Office Building contained a utility shop. A lathe, steel pieces, bags of sand blast grit and containers of paint were among items inside the shop. The shop is used for the manufacturing and repair of materials used in various hydrodams owned by Lawrence Keddy (Crawford, B. 1995). A 275± gallon capacity above ground storage tank and a 55 gallon capacity metal drum were on the floor inside the shop. The tank and drum contain #2 fuel oil used for the furnace that heats the shop (Crawford, B. 1995). The second floor of the building contained rooms that were formerly

used as offices for the steel mill (Googins, A. 1995). Several bags labeled "Kast-O-Lite" were on the floor, along with wood patterns and hard hats. The bags of "Kast-O-Lite" may have been used for lining melt furnaces during the manufacture of steel billets (Crawford, B. 1995). The basement of the building was used for storage of former steel mill equipment. The first and second floors of the Storage and Manufacturing Building were used for the storage of miscellaneous items associated with the former steel mill including: steel, bricks, wood and machinery.

The Forge Shop contained the roller room for the former steel mill. Several large rotary furnaces were at the west end of the shop. The furnaces were fired by bunker oil and used for remelting steel during operation of the steel mill (Crawford, B. 1995).

The Old Boiler House was in very poor structural condition. Six (6) large steel above ground storage tanks encased by brick were inside the building. The tanks appeared to be empty. Bunker oil was pumped from some of the tanks and removed from the site in 1994 (Crawford, B. 1995). The tanks had steel piping protruding from their tops that was connected to other steel piping inside the building.

A one story addition on the east side of the building contained the end of the rail spur mentioned previously, and a farm wagon.

4.1.2 Forested Areas - The southeastern end of the site, adjacent to the Presumpscot River and west of the railroad line, was mostly wooded. The rail spur extended south from the overhead hoist through the wooded area and connected to the rail line south of the site. A concrete pad and debris including wood, metal and rubber tires was near the center of the wooded area. This was the location of a garage that once existed on the site (Crawford, B. 1995). A large metal object was north of the former garage. The object

may have been a large hammer used in the steel mill (Crawford, B. 1995). A woodchip and wood shavings pile and several lengths of cast iron pipe were in a grassed area on the north edge of the forested area.

4.2 Potentially Hazardous Substances in Connection with Identified Uses - Sources of potentially hazardous substances include fuel oil used for heating purposes and paints and cutting oil used in the machine shop. Other potentially hazardous substance are hydraulic fluid used in forklifts within the machine shop, metals in slab produced during steel manufacturing, and solvents used in historic manufacturing processes at the site.

4.3 Hazardous Substance Containers and Unidentified Substance Containers - We observed numerous small quantity containers including, but not limited to, 1 gallon cans of paint, 5 gallon cans of hydraulic fluid and cutting oil, and a 55 gallon capacity drum containing #2 fuel oil inside the machine shop. Several one quart cans of motor oil were in the compressor room in the Melt Building. 5 gallon cans of hydraulic fluid were stored on the second floor of the Melt Building.

4.4 Storage Tanks - We observed a 275± gallon capacity #2 fuel oil tank used to store oil for heating purposes in the Machine Shop. Several empty, brick encased, steel tanks were inside the Old Boiler House. The tanks formerly contained bunker oil (Thompson, N. 1995). Concrete cradles at the eastern end of the site adjacent to the railroad line formerly supported above ground storage tanks containing oil (Crawford, B. 1995). A 300± gallon capacity underground storage tank containing gasoline reportedly was removed from near the west side of the Manufacturing and Office Building in the early 1990's (Crawford, B. 1995).

4.5 Indications of PCB's - We observed a pole-mounted transformer, owned by Central

Maine Power Company, south of the Press Building. Three (3) large transformers mounted to a concrete pad were also south of the Press Building. The three transformers (owned by Barnard-Marquis Corporation) had not been used for many years (Crawford, B. 1995).

4.6 Indications of Solid Waste Disposal - Test pits excavated at the site indicated that fill materials up to 13 feet thick had been placed in many areas around the site. The fill contained sand, gravel, clay, glass, bricks, wood, metals (rebar, steel shavings, flattened drums, and slag), rubber, asphalt shingles, leather and ash. Much of the fill may have originated from on-site manufacturing processes.

We observed debris piles containing household trash, wood, metal and rubber tires at the southern end of the site.

4.7 Physical Setting Analysis - The site is situated on the northeast bank of the Presumpscot River with site topography sloping generally south and west towards the river. It is possible that contamination from off-site hazardous substances north and east of the site could migrate to the site.

5.0 EXPLORATION AND TESTING

5.1 Exploration - Shaw Brothers Construction, Inc. of Gorham, Maine excavating twenty-four test pit explorations at the site on November 13, 1995. The test pit exploration locations were selected and established in the field by S. W. COLE ENGINEERING, INC. using taped measurements from existing site features. We chose the locations based on observed and documented site features and reported locations of former storage tanks. The approximate test pit exploration locations are shown on Sheet B-2 in Appendix B.

Logs of the test pit explorations, based on our observations, are attached in Appendix G. A key to the notes and symbols used on the logs is also included in Appendix G.

The purpose of the test pit exploration program was to obtain soil samples for field testing and analytical laboratory testing. Random sampling was done at each of the test pit explorations. Soils encountered were mostly fill overlying clayey silt and sand overlying bedrock.

5.2 Headspace Analysis - We obtained random soil samples from each test pit and tested the samples by the headspace technique with a PID. Readings up to 710 ppm were measured for samples S-1 through S-3 at Test Pit 5, and readings up to 635 ppm were measured for samples S-1 and S-2 at Test Pit 5A. A reading of 15 ppm was measured for a sample S-1 at Test Pit 17, and a reading of 10 ppm was measured for a sample S-1 at Test Pit 18. The readings for all other samples were non-detect. The results are summarized in the Table in Appendix H. It should be noted that these are direct readings (set numbers were not used) from the PID, which was calibrated with isobutylene gas to 100 ppm.

The headspace analysis was conducted by placing about 250 grams of soil into a one quart zip-type polyethylene bag. The bags were sealed and the samples were agitated for about 30 seconds. The sample was allowed to equilibrate for about 15 minutes. The probe of the PID was then placed through the seal in the bag to draw out a sample of gas and vapor from the headspace between the soil and the bag. The result was then indicated on the PID display. The PID used was a Photovac MicroTIP Model MP-1000 with a 10.6 electron Volt ultraviolet lamp.

5.3 Analytical Testing - We obtained one soil sample at selected depths from each of

Test Pits TP-5, TP-5A, TP-9, TP-10, TP-11 and TP-24 and submitted them for analytical testing at Environmental Diagnostic Laboratories (EDL) in South Portland, Maine. The samples were transported to EDL by S. W. COLE ENGINEERING, INC. personnel using chain of custody procedures.

The sample from TP-5 was analyzed for TPH-fuel oil using DEP methods. The test result was 8000 milligrams per kilogram (mg/kg), which is equivalent to 8000 parts per million (ppm). The laboratory report indicated that the sample showed the presence of hydrocarbon material of unknown identity, and that the chromatographic "fingerprint" was indicative of heavy molecular weight hydrocarbons. The sample from TP-5A was analyzed for organo-chlorine pesticides and PCB's. The test results were non-detect. The samples from TP-9, TP-10 and TP-11 were analyzed for heavy metals. The test results for copper of 184 mg/kg (PPM) from TP-9 and 779 mg/kg (PPM) from TP-10 were higher than typical ranges of copper in soils. Typical heavy metal values for soils are presented in Table 4.

The test results for all other metals were within typical ranges found in soils.

Table 4
Total Metals Analysis Results (mg/Kg)

Parameter	TP-9	TP-10	TP-11	Typical Values (ppm)
Arsenic	27.0	13.0	19.0	1-50[1]
Cadmium	7.0	3.0	2.0	.01-7[1]
Chromium	169.0	44.0	28.0	5-1000[1]
Copper	187.0	779.0	43.0	2-100[1]
Lead	111.0	78.0	87.0	2-200[1]
Nickel	112.0	152.0	38.0	10-1000[1]

Silver	ND	ND	ND	<.1-1[4], 2-5[3 and 5]
Zinc	106.0	254.0	29.0	10-300

Notes: Results for Table 4 are reported as mg/Kg, which is equivalent to parts per million (ppm).

ND = Non-Detect

ppm = Parts Per Million

mg/Kg = Milligrams Per Kilogram

[1] Bohn, H., B. McNeal and G. O'Conner. 1979. Soil Chemistry. New York: John Wiley & Sons, p. 295.

[2] Bohn, H. etal, 1979, p. 278.

[3] Shacklette, H.T., and J.G. Boemgen. 1984. Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States. USGS Prof. Paper 1270. Washington, D.C.: US Govt. Printing Office.

[4] Smith, I.C., and B.L. Carson. 1977b. Trace Metals in the Environment. Vol. 2: Silver. Ann Arbor, MI. Ann Arbor Science

[5] For Soils High in Organic Content.

[6] Allowway, B.S. 1995. Heavy Metals in Soils. 2nd Ed.: Blackie Academic & Professional. Glasgow, U.K., p. 368.

The sample from TP-24 was analyzed for volatile organic compounds and TCL. The test results were non-detect for both parameters. Copies of the laboratory reports are included in Appendix I.

6.0 OBSERVATION AND MONITORING OF REMEDIATION

6.1 Soil Remediation - We observed and monitored the removal of hydrocarbon contaminated soil from the site on April 29, 1996. The contaminated soil had been encountered in Test Pits TP-5 and TP-5A during our exploration phase of the project on November 13, 1995. Nick Hodgkin (MDEP Augusta Office) visited the site at our request on November 20, 1995. We asked Mr. Hodgkin to visit the site due to potential participation of the site in the MDEP VRAP program. Mr. Hodgkin set a Baseline-2 clean

up goal for the remediation of the contaminated soils. The Baseline-2 clean up goal stipulates that all free product be removed, and soil containing greater than 200 ppm fuel oil (determined by field headspace analysis) be removed or remediated. A.L. Doggett of Gray, Maine excavated and transported 10.88 tons of contaminated soil from the locations of Test Pits TP-5 and TP-5A to Commercial Paving Co., Inc. in Scarborough, Maine on April 29, 1996.

6.2 Field Testing - We obtained random soil samples during the excavation of the contaminated soil and tested the samples by the headspace technique with a PID. The purpose of the headspace testing was to determine the horizontal and vertical extent of the contaminated soil. A high reading of 790 ppm was obtained in Sample S-3 at a depth of 4.0 ft in the excavation. Lower readings were obtained in samples from the excavation as it was continued in depth and in lateral directions. Readings from the final samples (S-5 through S-7) taken from the sides and bottom of the excavation were non-detect. The results are summarized in Table H-1 in Appendix H. It should be noted that these are direct readings (DEP set numbers were not used) from the PID, which was calibrated with isobutylene gas to 100 ppm.

The headspace testing was conducted as outlined in Section 5.2.

6.3 Analytical Testing - We obtained one sample of the contaminated soil from Test Pit TP-5 on December 21, 1995 and submitted it to Maine Environmental Laboratory in Yarmouth, Maine for analytical testing. The sample was transported to Maine Environmental Laboratory using chain of custody procedures. The purpose of the testing was to pre-qualify the non-virgin source petroleum contaminated soil for disposal acceptance at Commercial Paving Co., Inc. The analytical testing of the sample indicated that the soil was acceptable for disposal. Copies of the laboratory report are included in

Appendix I. We also obtained two soil samples (one from the excavation sidewall and one from the bottom of the excavation) on April 29, 1996, and submitted them to Environmental Diagnostic Laboratory (EDL) in South Portland, Maine for analytical testing. The samples were transported to EDL by S. W. COLE ENGINEERING, INC. personnel using chain of custody procedures. The samples were analyzed for total petroleum hydrocarbon (TPH) using DEP methods. The purpose of the testing was to verify that the contaminated soil had been satisfactorily remediated to the Baseline-2 clean up level established by the DEP. Copies of the laboratory report are included in Appendix I. The results were reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).

7.0 FINDINGS AND CONCLUSIONS

The 6.5± acre site consists of six interconnected structures surrounded by grass, gravel and forest covered land. The site has historically been used for industrial purposes, including wood pulp processing and steel manufacturing. We understand that commercial development is proposed for the site. We found evidence of petroleum contaminated soil at the northern end of the site adjacent to Depot Street. Analytical laboratory testing indicated that the contamination was a heavy oil. The Maine Department of Environmental Protection (MDEP) was contacted and established a Baseline-2 clean up goal for the petroleum contaminated soils. 10.88 tons of contaminated soil were subsequently removed from the site and disposed of properly, and the Baseline-2 clean-up goal set by MDEP for the known petroleum contaminated soils was met.

A source of potential on-site contamination includes fuel formerly stored in at least eleven (11) above ground and underground storage tanks. Our research and observations

indicated that only the six (6) above ground storage tanks inside the "Old Boiler House" still exist at the site. Bunker oil remaining in some of those tanks was reportedly removed from the site in 1994. Field headspace testing of soil samples from test pits adjacent to known and reported locations of the eleven storage tanks indicated non-detectable levels of ionizable organic compounds.

Other sources of potential on-site contamination include fuel, lubricants, solvents and heavy metals from historic industrial uses of the site. Analytical test results for a random soil sample analyzed for VOC's were non-detect. Analytical laboratory testing of three test pit soil samples for heavy metals indicated that copper was detected in two of the samples in concentrations higher than normally detected in typical soils. PID testing of soil samples from test pits around the site (exclusive of TP-5 and TP-5A, where petroleum contaminated soil was remediated) indicated non-detectable levels of ionizable organic compounds.

Sources of potential off-site contamination include fuel from active and former underground storage tanks on the adjacent property northeast of the site, and fuels, lubricants and similar chemicals from the historic use of the adjacent property east of the site as a railroad line. However, we did not observe evidence that any of these potential off-site contamination sources had migrated to the site.

We recommend that the three transformers on the ground south of the Press Building be removed from the site and disposed of properly. Proper disposal of the transformers would include the testing of any remaining transformer oil for the presence of PCB's.

In 1995, the current or former owner of the site, Barnard-Marquit Corporation, notified the Maine Department of Environmental Protection Bureau of Remediation and Management

when the petroleum contaminated soil was discovered at the northern end of the site adjacent to Depot Street. Barnard-Marquit Corporation inquired about applying for the Maine Department of Environmental Protection Voluntary Response Action Plan (VRAP) program for assistance in remediating the contaminated soil. S. W. COLE ENGINEERING, INC. was retained by Barnard-Marquit Corporation to monitor and document removal of contaminated soils from the site as part of the proposed "VRAP" program. We understand that the VRAP program application was not submitted to the MDEP. We recommend that the proposed purchaser of the property, or current property owner, submit an application to the MDEP VRAP program for the site.

8.0 CLOSING

It has been a pleasure to be of assistance to you with this phase of your project. If you have any questions or if we may be of further assistance, please do not hesitate to contact us.

Very truly yours,
S. W. COLE ENGINEERING, INC.

Gary W. Bucklin, Environmental Scientist
Project Manager
GWB:jel

BIBLIOGRAPHY

Bartow, Betty, Personal Communication with Gary W. Bucklin, October 19, 1995

Beer Atlas, Little Falls, Town of Windham & Gorham, 1871

Crawford, Bruce, Personal Communication with Gary W. Bucklin, September 24, 1995

Dole, Samuel, Little Falls: A Chapter of Local History, Maine Historical Society, 1896.

Dole, Samuel, Windham in the Past, 1906.

Googin, Anne, Personal Communication with Gary W. Bucklin, September 27 and October 26, 1995.

Maine Association of Professional Soil Scientists, Guidelines for Maine Certified Soil Scientists for Soil Identification and Mapping, 1995.

Mullen, M.K., Tolman, A.L. 1985, Fresh-Water Wetlands Map #4, Maine Geological Survey, Department of Conservation.

Osberg, P.H., Hussey II, A.M., Boone, G.M., 1985, Bedrock Geologic Map of Maine, Maine Geological Survey, Department of Conservation.

Smith, G.W. & Thompson, W.B. Surficial Geology of the Gorham Quadrangle, Maine. Maine Geologic Survey, 1976.

Timmons, Roger, Personal Communication with Gary W. Bucklin, September 27, 1995.

Thompson, Nathan, Personal Communication with Gary W. Bucklin, October 17, 1995.

Tolman, A.L., Lanctot, E.M., 1981, Sand and Gravel Aquifers, Map #4, Maine Geological Survey, Department of Conservation.

United Appraisal, Summary of Replacement & Sound Value, New England Steel Co. 1976.

Walker, Steve, Personal Communication with Gary W. Bucklin, November 2, 1995.

APPENDIX A

APPENDIX A

Limitations

This environmental site assessment report has been prepared for the exclusive use of George Wood for specific application to the Phase I & II - Environmental Site Assessment at the Former Steel Mill Property, Route 202 and Depot Street in South Windham, Maine. We have endeavored to prepare this report in accordance with generally accepted practices. No other warranty, expressed or implied, is made.

The scope of our assessment has been limited to the items specifically discussed in the text of this report. Recommendations contained in this report are based substantially upon information provided by others regarding the site and on our findings during the site visit. Should any additional data or information become available, it should be reviewed by S. W. COLE ENGINEERING, INC. and the conclusions and recommendations presented in this report should be modified as appropriate.

This report cannot reflect undetected variations which may occur nor can it reflect variations of subsurface conditions (groundwater quality or elevation) over time. S. W. COLE ENGINEERING, INC. has made no attempt to verify the compliance of the past or present owners and/or occupants of the property with local, state, or federal laws and regulations.

It must be noted that our findings do not represent scientific certainties and are based on professional judgement. S. W. COLE ENGINEERING, INC. does not represent that the subject site contains no hazardous substances or other latent conditions beyond that detected or observed by S. W. COLE ENGINEERING, INC. during this environmental site assessment.

1.0 INTRODUCTION

The primary objective of the additional work was to investigate sources of potential contamination identified in previous reports regarding the subject property, and during the site walk by Jacques Whitford on June 27, 2003. Reference documents used to develop the supplemental investigation scope include:

1. Environmental Site Assessment, Phase I & II, Former Steel Mill Property, Route 202 and Depot Street ,Windham, Maine, by S.W. Cole Engineering, Inc., November 17, 1997.

2. Phase I Environmental Site Assessment, Keddy Manufacturing Company, South Windham, Maine, by Acadia Environmental Technology, March 2, 1994.

3. Phase I Limited Environmental Assessment, Lot 7 of Map 38, Windham Township, South Windham, Cumberland County, Maine, by Consla Geotechnical Engineering, March 18, 1993.

The subject site is proposed for future multi-unit residential development. The present site owner and development partners propose to seek a Maine Department of Environmental Protection (DEP) "No Action Assurance Letter" through the Voluntary Response Action Program (VRAP). This report, and prior site investigation reports, will provide the basis for DEP's initial review following formal application to the VRAP.

1.1 Site Description

The site consists of a former steel mill located on 7 Depot Road in South Windham, Maine (refer to Figure 1). The approximately 8-acre parcel is bordered by Depot Street to the North, Maine Central Railroad tracks to the east, the Presumpscott River to the South and Route 202 to the West. The site was reportedly first developed for industrial use in the 1700s, and over the years uses included a saw mill, grist mill, manufactured wood board mill and the steel mill whose remnants presently occupy the site.[1]

The former Depot Energy Company (bulk oil and coal storage) is located adjacent to and northeast of the site; this property was later used as an automobile repair facility. An automobile repair facility and building supply company occupied properties north of the site[1], and a hydroelectric power generating facility and dam are located south of the site. Residences are located along Depot Road and Mechanic Street just north of the site, and along High and Van Tassel Streets east-southeast of the site.

The site is presently occupied by a former mill building constructed primarily of concrete and brick. The majority of the building consists of two levels, including a basement that is partially below grade. According to S.W. Cole, the building included a boiler house, forge shop, press building, melt building and offices[1]. The forge shop and boiler house have been razed.

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[1] Environmental Site Assessment, Phase I & II, Former Steel Mill Property, Route 202 and DepotStreet ,Windham, Maine, by S.W. Cole Engineering, Inc., November 17, 1997.

Public water and sewer is available to the site area. Portland Water District records for South Windham indicate that a number of residences generally east of the site have water wells. The closest wells to the site include the Boulanger, Georgatos and Reed residences, located about 500 to 1,000 feet to the northeast. Site topography indicates these residences are located at an elevation 20 to 40 feet higher than the site.

1.2 Previous Environmental Investigations

Previous environmental reports have identified areas of known and potential environmental concerns on-site (refer to report references above). These areas include:

- Potential asbestos-containing mill construction materials
- Oil spillage near two former above ground oil tanks (tanks since removed)
- Peeling paint that may contain lead
- Potential PCB-containing electrical equipment
- Miscellaneous oil storage containers, tanks, and associated piping
- Potential leakage of wastewater from two 1,000 gallon underground concrete tanks
- A floor drain on the ground floor of the former mill building with unknown discharge point.

Subsurface investigations by S. W. Cole in 1995 and 1996 addressed a number of these areas of concern. S. W. Cole completed twenty-four test pits targeting former storage tanks and other areas of potential concern. Soil samples were screened for volatile organic compounds with a photoionization detector (PID) and six soil samples were tested in a laboratory either for fuel oil, pesticides, PCBs, and heavy metals.

S. W. Cole identified heavy oil-impacted soil at the northern end of the site near Depot Street. The impacted soil was located in the vicinity of a two former above-ground heavy oil storage tanks (now removed). S. W. Cole removed approximately 11 tons of soil impacted by the heavy oil. The DEP assigned a "Baseline-2" clean-up goal for the site. This goal includes removal of soils with fuel oil concentrations of 200 to 400 parts per million (ppm) based on field screening instrumentation. The Baseline-2 goal is generally applicable to sites in downtown urban areas or commercial strips where groundwater is not likely to be used in the future.

S. W. Cole's 1997 report indicates that the DEP Baseline 2 goal was met following impacted soils removal. S. W. Cole further reported that "field headspace testing of soils samples from test pits adjacent to known and reported locations of the eleven storage tanks indicated non-detectable levels of ionizable organic compounds.[1]" S. W. Cole reported that six of the eleven fuel storage tanks remained at the site at the time of their investigation. The six tanks, formerly located in the boiler house, have since been removed.

Laboratory testing of soils by S. W. Cole detected no volatile organic compounds, and copper was the only heavy metal detected at concentrations higher than naturally-occurring soils. Laboratory testing of oil-impacted soil removed from the site identified no semi-volatile organic compounds using the toxicity characteristic leaching procedure (TCLP).

2.0 SUPPLEMENTAL SITE INVESTIGATIONS

Based on the previous site investigations, Jacques Whitford identified a number of areas that warranted additional investigation. These areas included (refer to Figure 2):

- Two former above ground fuel storage tanks (15,000 and 10,000 gallon capacity) near the railroad tracks on the east side of the site where oil-stained soils were observed during a previous site investigation;
- Two 1,000 gallon underground wastewater tanks adjacent to the north wall of the facility;
- Former 3,000 gallon above-ground fuel tank located at the end of a rail spur on the east side of the site;
- Transformer pad/electrical substation on the south side of the site;
- Former drum storage area at the south end of the former mill building;
- Former garage at the south end of the site; and
- Two floor drains on the ground floor of the main mill building.

2.1 Test Pits

On August 4, 2003, twelve test pits (TP-1 to TP-12) were advanced to evaluate areas of potential concern identified during previous site investigations and during a site walk by Jacques Whitford on June 27, 2003. Mr. Peter Lowell of EnviRon Services, Inc. dug the testpits with a Volvo track-mounted excavator. Excavation locations are depicted on Figure 2.

Sample ID	Location/Rationale
TP101	Adjacent to former wastewater holding tanks
TP102	In area of stressed/sparse vegetation during site walk on June 27, 2003
TP103	In area of stressed/sparse vegetation during site walk on June 27, 2003
TP104	Former No. 6 oil spill clean up area
TP105	Former No. 6 oil spill clean-up area
TP106	Former 250K gallon above ground fuel oil tank
TP107	Downslope from former Depot Energy Company
TP108	Downslope from former Depot Energy Company
TP109	Adjacent to former 15K gallon above ground fuel oil tank
TP110	Adjacent to former 10K gallon above ground fuel oil tank
TP111	Former outside drum storage area
TP112	River side of former garage

Jacques Whitford observed the test pitting, screened the soil with a photoionization detector (PID), collected soil samples for laboratory analysis, and recorded observations pertaining to the physical characteristics of the soil on test pit logs (refer to Appendix A for test pit logs).

From each 2-foot interval in the testpits, Jacques Whitford collected approximately 250 grams of soil in a 1-quart Ziplock® brand plastic bag for volatile organic compound (VOC) screening. Jacques Whitford screened the soil with a Thermo 580B photoionization detector (PID). Prior to screening, Jacques Whitford calibrated the PID to 100 parts per million (ppm) with 100-ppm isobutylene gas. Screening results are recorded on the test pit logs.

2.2 Hand Augers

On August 5, 2003, Jacques Whitford advanced borings at six locations with a hand auger (HA-1 to HA-6). These borings were advanced to auger refusal on cobbles which varied from 0.5 to 1.5 feet below ground surface. Jacques Whitford decontaminated the 3-inch bucket auger between locations with a Liquinox and distilled water wash followed with a distilled water rinse.

Jacques Whitford evaluated the former 3,000 gallon above-ground storage tank area proposed for exploration by hand auger. We found that the tank rested on a concrete pad and we observed no stains or other evidence of petroleum spills. No further exploration was performed.

Sample ID	Location/Rationale
HA-1	Adjacent to outside transformer pad
HA-2	Adjacent to outside transformer pad
HA-3	Along exterior building wall, adjacent to interior floor drain in building basement
HA-4	Apparent oil-stained surface soils (2 ft x 5 ft)
HA-5	From floor drain on basement level of building
HA-6	In area of apparent oil-stained surface soils (3 ft x 6 ft)

2.3 Surface Soil Sampling

Based on test data collected for the site during the test pit and hand auger programs, Jacques Whitford collected surface soil samples from inside and outside the former mill building for polychlorinated biphenols (PCB) testing. One sample (SS105) was tested for metals. The sample locations are labeled SS1-SS12 and SS101-SS107 on Figure 3.

Sample ID	Location/Rationale
SS1	South of floor "cut out" along north building wall; PCBs identified in drain
SS2	North of floor "cut out" along north building wall
SS3	East of floor "cut out" along north building wall
SS5	Floor "cut out" along north building wall
SS6	Floor drain along south building wall
SS7	Soil from concrete floor south of maintenance shop
SS8/SS9	Soil from concrete floor in maintenance shop
SS10	Soil from concrete floor near former transformer
SS11	East of stained soil outside building; PCBs identified in stained soils
SS12	South of stained soil outside building
SS13	West of stained soil outside building
SS14	Stained soils outside building (0-0.5 ft)
SS15	Stained soils outside building (0.5-1 ft)
SS101	Floor drain along south building wall
SS102	Soil on concrete floor on basement level
SS103	Soil on concrete floor on basement level
SS104	Soil on concrete floor on basement level
SS105	Soil from outside south wall, adjacent to interior drain (metals testing)
SS106	Soil from outside south wall, adjacent to interior drain (PCB testing)
SS107	Soil from outside south wall, down slope from interior drain
SS108	Soil from outside south wall, down slope from interior drain

Jacques Whitford collected samples HA-5 and SS-5 from the center of an approximately 1-ft x 1ft square cut out in the concrete floor of the concrete floor of the former mill building. Jacques Whitford collected samples SS1, SS2, and SS3 by coring through the concrete floor in the vicinity of the "cut out." SS4, proposed for the west side of the "cut out," could not be completed due to an obstruction.

Jacques Whitford collected samples SS6 and SS101 from a floor drain along the south wall of the building. The drain was about 1.5 ft x 1.5 ft square and contained water at a depth of about 2 ft below the floor level. Soil samples SS106, SS107 and SS108 were collected outside the building, adjacent to the floor drain. Hand excavation along the building wall did not identify a discharge pipe from the drain. Jacques Whitford believes that the drain may have an open bottom or sides under the building floor, with no point discharge.

Surface samples SS7, SS8/ SS9 (duplicate of SS8), SS10, SS102, SS103, and SS104 were composed of soil-like material that had accumulated on the building's concrete floor. SS7, SS8/SS9 and SS10 were collected from the second floor of the building; the others were collected from the basement/ground level. Sample locations were selected based on proximity to maintenance activities and former electrical equipment, such as transformers.

2.4 Chemical Testing

Selected soil samples were tested for VOCs (EPA Method 8260-B), diesel-range organics (DRO), the eight RCRA metals, and PCBs. Samples were selected based on field PID readings, visual indications possible impact, and position at or near the water table. Sample numbers, dates, depths and analytical results are summarized on Table 1; laboratory data sheets are contained in Appendix B.

Jacques Whitford subcontracted to Katahdin Analytical Services, Inc. (KAS) for laboratory testing of VOCs, DRO and heavy metals. KAS also conducted PCB testing during the test pit and hand auger programs. Spectrum Analytical, Inc. conducted PCB testing during the surface sample program; KAS provided analysis of one duplicate sample (SS101) for quality assurance/quality control.

Soil samples were collected in laboratory-supplied containers and kept chilled until delivery to the laboratory. Samples were managed under chain-of-custody protocol (copies of custody forms are contained in Appendix B).

3.0 RESULTS

3.1 Site Geology

Soil observed in the excavations consisted primarily of sandy fill with cobbles. Zones of clayey silt (possibly native soils of the Presumpscot Formation) were observed in some of the test pits such as in TP-103 from 5-8 feet below ground surface (bgs). The fill contained varying amounts of brick, ash, and coal. Timbers, rebar, and pieces of crushed metal were also observed in TP-103 at 5 feet bgs.

In TP-104, natural medium to coarse sand overlying silty clay was observed between 11 and 12 feet bgs. These soils may be glacial outwash overlying finer-grained deposits of the Presumpscot Formation.

The depth to bedrock varied from over 12 feet to 4 feet bgs. Bedrock was shallower at the east end of the property (4-6 feet bgs in TP-8 to TP-12) and deeper to the north and central portions of the property (over 10-12 feet in TP-101 to TP-106).

PID headspace readings recorded from screening of soil in the testpits and hand auger locations varied from 0.0 to 8.5 ppm. Other than apparent surface oil staining at HA-4 and HA-6, no visual or olfactory evidence of contamination was identified during the test pit and hand auger program. During hand excavation for sampling at SS106, a slight sheen on the soil and water were observed; the water level was about 1.5 feet bgs.

The soil in the excavations appeared mostly moist. Standing water was observed at 11 feet bgs in TP-104, 9 feet bgs in TP-107, and at 2 feet bgs in HA-3. The ground surface at HA-3 to the south of the site building was slightly above the elevation of the adjacent Presumpscot River. Based on site and vicinity topography, it is likely that groundwater flows west-southwest, toward the Presumpscot River.

3.2 Chemical Testing

Test results are summarized on Table 1. The table includes sample numbers, sample date, and depth of sample. Sample locations are shown on Figures 2 and 3. Laboratory test data is attached as Appendix B.

3.2.1 DRO and VOCs

Jacques Whitford tested soils from TP-101, TP-104, TP-107, TP-111 and HA-6 for DRO and VOCs. DRO concentrations ranged from approximately 9 mg/kg (TP-104) to 9,100 mg/kg (HA-6). DRO fingerprinting indicated the presence of heavy oil, such as motor oil, in the samples tested. Lighter oils, such as gasoline, diesel or #2 fuel oil, were not identified. This finding is consistent with the results of VOC testing where no constituents of lighter oils were identified, such as benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl-tertiary butyl ether (MTBE). Methylene chloride and trichlorofluoromethane were detected in each of the samples and are suspected to be the result of cross contamination in the laboratory.

3.2.2 Metals

Soil samples from TP-102, TP-103, TP-107, TP-110, TP-112, SS-101 and SS105 were sampled for the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). With the exception of arsenic, the metals concentrations were below the DEP Remedial Action Guidelines (RAG) for residential settings.[2] Arsenic was detected slightly above the RAG of 10 mg/kg at TP-102 (16 mg/kg), TP-103 (11 mg/kg), TP-110 (16 mg/kg), TP-112 (22 mg/kg), SS101 (17.5 mg/kg) and SS105 (13.6 mg/kg).

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[2] DEP "Remedial Action Guidelines," updated May 20, 1997.

3.2.3 PCBs

Former Transformer Pad

Relatively low concentrations of PCBs were detected in surface soils adjacent to the former transformer pad. Total PCB concentrations ranged from 0.119 mg/kg (parts per million – ppm) at HA-1 to 0.056 ppm at HA-2 (refer to Figure 3).

Stained Surface Soils Along South Building Wall

Jacques Whitford detected 2.8 ppm total PCBs in surface soils sampled from apparent oil-stained soils along the south building wall (SS14). The PCBs detected included Aroclor 1016, 1242, 1254, and 1260.

Surface soil samples collected at SS11, 10 feet to the east of SS14, were non-detect for PCBs. Likewise, surface soils collected at SS12, 10 feet to the south of SS14, were non-detect for PCBs. Surface sample SS13, 10 feet west of SS14, contained total PCBs of 0.135 ppm. The testing indicates limited aerial extent of PCB impacts at SS14.

PCB concentrations appear to decrease with depth at this location given detection of 2.8 ppm total PCBs in surface sample SS14 (0-0.5 ft), 1.8 ppm in sample SS15 (0.5-1 ft), and 0.63 ppm detected in HA-4 (1-2 ft); each of these samples were co-located.

Floor "Cut Out" along North Wall of Basement

Jacques Whiford detected 77 ppm total PCBs in surface soils sampled from the cut out in the concrete floor of the building basement (SS5). PCBs detected included Aroclor 1254 and 1260.

Soils sampled beneath concrete flooring at SS1, 10 feet south of SS5 contained 0.09 ppm total PCBs. Soils beneath the concrete floor at SS2, 5 feet north of SS5, contained 0.817 ppm total PCBs. Soils beneath concrete at SS3, 10 feet east of SS5, contained non-detectable PCB concentrations.

Test data indicate decreasing PCB concentrations with depth at the concrete floor "cut out." The surface soil sample SS5 (0-0.5 ft) contained 77 ppm total PCBs, while HA-5 (0.5 to 1 ft depth) contained 36 ppm total PCBs.

Floor Drain and Exterior Soils along South Wall of Basement

Total PCBs at 173 ppm (Aroclor 1254) were detected in sediments collected from a floor drain located along the south wall of the building basement (SS6). Confirmatory sampling from the same drain indicated 262 ppm PCBs (SS101) and 570 ppm PCBs (SS101 duplicate).

Soils sampled from a depth of 1.5 feet outside the building and adjacent to the interior floor drain (SS106) contained 113 ppm PCBs (Aroclor 1254). SS107, located about 10 feet west of SS106 (toward the river), contained 120 ppm Aroclor 1254; the sample depth was about 1 1/2 feet. SS108, located about 11 feet west of SS107, contained 9.3 ppm Aroclor 1254; the sample depth was about 1 foot.

Soil Build-up on Interior Concrete Floors

Material sampled from the surface of the concrete floor inside the building contained total PCBs ranging from 11 ppm (SS8) to 138 ppm (SS103). The PCBs detected included Aroclor 1254 and 1260.

4.0 DISCUSSION

Under 40 CFR 761.61, the US Environmental Protection Agency (EPA) cleanup level for PCB remediation waste (*e.g.*, soils and material with porous surfaces, such as concrete) is ≤1 ppm in "high occupancy areas." This level is slightly lower than the DEP RAG for residential settings of 2.2 ppm total PCBs. The EPA clean-up level for low occupancy areas is ≤25 ppm, or < 50 ppm if the area is marked with signs and a fence.

EPA defines high occupancy areas as those in which the occupancy of any individual not wearing dermal and respiratory protection is about 17 hours or more per week (*e.g.*, residential areas or schools). If a cap is constructed over PCB-impacted materials, the clean-up level is ≤10 ppm in high occupancy areas, and ≤100 ppm in low occupancy areas.

Soil cleanup options under 40 CFR 761.61 include, among others, excavation and off-site disposal, and capping to prevent contact with site occupants. EPA notes that caps must be constructed of at least 10 inches of compacted soil or 6 inches of concrete or asphalt. EPA provides specifications for cap permeability, plasticity and grain-size characteristics.

Based on the test data for the site, soils were identified at concentrations exceeding the clean-up level for both high and low occupancy areas. These areas include the concrete "cut out" and floor drain in the building basement, soil build-up on building floors, and exterior soils in the vicinity of the floor drain.

5.0 CONCLUSIONS

Based on the data available to date, Jacques Whitford concludes the following:

1. Site investigations by Jacques Whitford and others have not detected impacts by past use and storage of "light" petroleum products such as gasoline, diesel or No. 2 fuel oil. This finding is based, in part, on completion twenty-four test pits by S.W. Cole, and 12 test pits and six hand augers by Jacques Whitford. Lighter petroleum products could contain contaminants with relatively high solubility and associated mobility, such as BTEX and MTBE.

2. A past release of heavy fuel oil at the site (fuel oil No. 6) appears to have been cleaned up in accordance with the goals established by DEP. DEP assigned a Baseline-2 clean-up goal for the release (PID readings of 200-400 ppm). PID screening of soils throughout the site by Jacques Whitford, including the heavy oil spill area, indicated a maximum reading of 8.5 ppm.

3. Past activities at the site do not appear to have resulted in significant heavy metals contamination. Other than arsenic, no metals were identified at concentrations exceeding DEP RAGs for residential sites. Arsenic was detected at concentrations slightly above the residental RAG. Arsenic is naturally occurring in Maine soils and bedrock, and elevated concentrations may not be the result of man-made contamination.

4. Soil-like material on the concrete floor in several areas of the former mill building were found to contain PCBs above EPA clean-up guidelines. PCBs likely originated in any number of former transformers and other electrical equipment used at the site.

5. Soils contaminated with PCBs above EPA and DEP clean-up guidelines are present in soils exposed in a "cut out" in the concrete floor of the building basement, and in a floor drain in the basement. PCBs above EPA and DEP clean-up guidelines are also present in outside soils proximate to the interior floor drain, and in soils sampled from an oil-stained area next to the building.

   While delineation of PCBs in soils is not complete, testing suggests that PCB concentrations decrease substantially with depth, and laterally away from the floor drain, concrete "cut out" and oil stained area.

6. The site area is serviced by sanitary sewer and public water supply. Three residences, located about 500 to 1,000 feet northeast of the site, have private wells. These wells are located at an elevation 20 to 40 feet higher than the site and apparently upgradient from the site with respect to groundwater flow.

6.0 RECOMMENDATIONS

Jacques Whitford recommends additional testing of soils in the vicinity of the basement floor drain. While test data to date indicates concentrations decrease with depth and laterally away from the drain, additional sampling is needed to more fully delineate the extent of impacted materials requiring cleanup in accordance with EPA and DEP regulations.

Jacques Whitford recommends removal and collection of soil build-up on the concrete floors inside the former mill building. The material should be segregated based on building floor or area, then tested for proper handling and disposal with respect to PCBs.

Oil-stained concrete floors, wood and other building materials should be considered suspect for PCBs. We understand that such surfaces will be cleaned prior to building demolition proposed as part of site redevelopment. Wastes generated during cleanup activities must be tested for PCBs and managed accordingly.

434 Cony Road
Augusta, Maine 04240
Voice: 207/621-8334
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Email: jcressey@summitenv.com

SUMMIT
ENVIRONMENTAL CONSULTANTS INC.

M e m o

To:	Jean Firth, MEDEP	**From:**	John Cressey
CC:	Laura Gay, MEDEP	**Date:**	May 20, 2010
RE:	Keddy Mill, Windham, Maine		

Jean,

Summit Environmental Consultants, Inc. (Summit) is pleased to provide the Maine Department of Environmental Protection (MEDEP) with this memorandum documenting soil sampling activities conducted at the Keddy Mill property located at 7 Depot Road in Windham, Maine.

On April 29, 2010, Troy Smith and Laura Gay of the MEDEP and I performed soil sampling of three discrete areas at the request of the MEDEP on behalf of the Town if Windham. The soil in these three areas was apparently placed in the building after the initial sampling event conducted by (who) in (date). The intention of this sampling was to determine whether or not the soil piles were impacted with Polychlorinated Biphenyls (PCBs) above the USEPA's Toxic Substance Control Act (TSCA) action guideline of 1 part per million (ppm) requiring them to be removed as part of the upcoming removal action.

Generator Room

Within the Generator Room a soil ramp was observed to be located between a concrete pad and the northern wall of the building extending to a doorway on the eastern side. Fifteen samples were collected within this area in six inch lifts. Depths ranged from six to eighteen inches into the soil pile depending upon location and extent of the pile. All fifteen samples were reported to contain the PCB Arochlor 1242 in excess of 1 ppm and ranged from 6.76 ppm to 121 ppm. See Table 1 for analytical results and Figure 1 for a site sketch.

Near Concrete Ramp in Basement

Within the main basement area another soil pile was observed to the west of a concrete ramp used for access to the building from the north. Soil samples were collected from depths ranging from 6 to 12 inches depending on soil extents. Soil sample results for the six samples and one duplicate reported exceedences of the 1 ppm action guideline. Two separate Arochlors were reported for five of the samples, both 1242 and 1254 were reported in SS-16, SS-17, SS-18, SS-20 (and its duplicate SS-21) and SS-22. Sample SS-18 reported Arochlor 1254 only, although it was above the 1 ppm threshold. See Table 1 for analytical results and Figure 2 for a site sketch.

Soil piles on First Floor

On the first floor of the mill two large piles of soil and refractory brick were observed along the northern wall near the eastern wing. Two soil samples and one duplicate were collected from the right hand pile and five soil samples were collected from the left hand pile. None of these samples were reported to have results above the 1 ppm action guideline. See Table 1 for analytical results and Figure 3 for a site sketch.

Based upon these results, Summit recommends complete removal of all of the soil within the generator room and the basement area near the concrete ramp.

Please feel free to contact me with any questions.

Attachments:

434 Cony Road
Augusta, Maine 04240
Voice: 207/621-8334
Fax: 207/626-9094
Email: jcressey@summitenv.com

M e m o

To:	Tom Bartell, Town of Windham	**From:**	John Cressey
CC:	Laura Gay, MEDEP	**Date:**	January 5, 2011
	Jean Firth, MEDEP		
	Frank Gardner, USEPA		
	Steve Etzel, Hudson Realty Group		
RE:	Keddy Mill, Windham, Maine		

Tom,

Summit Environmental Consultants, Inc. (Summit) is pleased to provide the Town of Windham with this memorandum documenting soil sampling activities conducted at the Keddy Mill property located at 7 Depot Road in Windham, Maine. See Figure 1 for a Site Location Map.

On October 5, 2010, MEDEP and Summit performed soil sampling within grids developed based upon a 100' x 100', 50' x 50', or 25' x 25' area depending on proximity to the building. The intention of this sampling event was to determine whether or not the exterior soils were impacted with Polychlorinated Biphenyls (PCBs) above the USEPA's Toxic Substance Control Act (TSCA) action guideline of 1 part per million (ppm).

Soil samples were collected from a maximum depth of two inches and collected using a clean pair of disposable nitrile gloves at each sample location. Once samples were collected they were logged onto a chain of custody and shipped to the USEPA Region 1 Environmental Testing Laboratory in North Chelmsford, Massachusetts for analysis of PCBs by the Region 1 Field Method.

<u>North of the east-west roadway</u>

Soil samples were collected starting at Depot Street and extending to the building. Sample concentrations ranged from non-detect near Depot Street to 6.1 ppm within the east-west roadway on-site. In addition, samples collected within the footprint of a former structure north of the current dam structure was observed to contain metal filings (presumed to be from past metal working activities on-site). These samples ranged from 1.2 ppm (C1.2) to 3.2 ppm (C3.2). Summit also utilized the MEDEP's X-Ray Fluorescence (XRF) device to determine if elevated metals were present in this material. The XRF result for lead was noted as 600 ppm. To determine if this material could be used to pinpoint material on-site with the same makeup, a sample was submitted to Maine Environmental Laboratory (MEL) in Yarmouth, Maine for Target Analyte Lsit (TAL) metals. The results of this analysis indicated elevated nickel, iron, and magnesium results. See Table 1 for analytical results and Figure 2 for sample locations.

Adjacent to the North of the Building

Samples immediately adjacent to the building ranged from non-detect to 1,100 ppm near the former generator room doorway at a depth of 0-1 inch. In total, 36 out of the 81 samples collected from north of the building were at or above 1 ppm. See Table 1 for analytical results and Figure 2 for sample locations.

Adjacent to the South of the building

Soil samples were collected starting at the building and extending approximately 120 feet to the south. Sample concentrations ranged from non-detect along the southern edge to 30 ppm along the Presumpscot River's edge and the building foundation at a depth of 0-2 inches. In total, 7 out of the 35 samples collected from south of the building were at or above 1 ppm all but one of these locations was immediately adjacent to the building. One location (G5.4) was located along a roadway and may be an example of transport of the impacted material along these on-site roadways.

East of the building and within north-south roadway

Soil samples were collected starting at the building and extending to the eastern property line. Sample concentrations ranged from non-detect along the eastern edge to 4.5 ppm along the former railroad spur at a depth of 0-2 inches. In total, 4 out of the 18 samples collected along the eastern edge of the building were at or above 1 ppm (all four were immediately adjacent to the building). A section of this area could not be sampled due to a large pit area and a crushed stone bed beside it. This may have been used as a dipping and drying area. The pit could be sampled with the use of a ladder to allow for entry, but the crushed stone bed was noted to be at least two feet thick of stone. An excavator or backhoe would be necessary to attempt to sample this area.

Results

PCB results ranged from non-detect to 1,100 ppm with the majority of the detections being for Aroclors 1248 and 1254, two common types of PCBs used in both dielectric fluids (i.e. transformers) and cutting oils. Because of the levels, spatial distribution and matrix of materials where contamination was detected it appears that we could have two sources of PCB contamination. Low levels could be associated with cutting oil and high levels could be associated with former transformers. The area immediately surrounding the former generator room may be due to past spillage of transformer oils and the transport of these impacted soils along the roadway. The area further to the north of the building (C1.2), to the east of the building, to the south of the building, and along the roadways on-site may be due to former cutting oils and dripping of the metal filings along the roadway, and/or the disposal of these filings on the property.

To develop our conceptual model that there are two sources of PCBs present at the site a sample of the material suspected to be metal cuttings was sampled for TAL metals and PCBs. The analysis confirms that the composition of the material are metal cuttings related to former uses of the property. Additionally, the PCB analyses demonstrate that the cutting oils associated with the metal cutting process are a source of PCBs. The metals analysis also provides information on how future investigations may be able to distinguish between the PCB source areas. PCB contamination associated with the disposal of metal cuttings will likely also have elevated iron, magnesium, and nickel concentrations. PCB contamination associated with the former transformer oil or from cutting

oil will likely have metals concentrations similar to site background soils. Real-time XRF and PCB analyses will provide the information necessary to determine the difference between the sources and further develop the site conceptual model. Remedial actions that address the PCB contamination will also address any potential risks associated with the elevated metal concentrations in the metal cuttings.

Quality Assurance

Fifteen duplicate samples were collected at random locations to provide documentation of repeatability of the results. The relative percent difference between the initial samples and the duplicate samples ranged from 0% to 160% (D3.1.3). Only one duplicate sample was reported as being different than its initial sample in terms of TSCA cleanup requirements. The duplicate sample from C4.3A was reported as 2.5 ppm while the initial sample C4.3 was reported as non-detect for PCBs.

Recommendations

Based upon this sampling event and the potential for exposure at the Site, Summit recommends the following:

1. Work should continue at the Site in compliance with the Self-Implementing Cleanup Plan developed in 2005 and submitted to the USEPA TSCA program.
2. Additional samples should be collected to fill data gaps in the sample locations to further delineate PCB-impacted areas.
3. In the spring, additional security measures will need to be installed to prevent contact with the elevated PCB concentrations located within soils on the Site.

Appendix K

Environmental Questionnaire

Summit Environmental Consultants, Inc.

Phone: (207) 621-8334
Fax : (207) 626-9094
email: garmstrong@summitenv.com

PHASE I ESA QUESTIONNAIRE

Date of Interview: 11/8/2010
Property/Site Identification: Keddy Mill
Property/Site Address: 7 and 13 Depot St Windham Maine
Current Owner of the Property: HRC Village at Little Falls LLC
Current Operator of the Property: NA
Name of Person/Persons Being Interviewed: Steve Etzel; Todd Coffin
Association/Position Relative to the Site: Property Manager / Owner's Environmental engineer
Name of Person/Persons Completing Questionnaire: Steve Etzel / Todd Coffin

For each question noted below, provide any additional descriptive information or explanation appropriate to the site.

1) Have any environmental assessments, analytical testing, reviews, studies, audits, or similar evaluations been completed for the property/site or abutting properties?

Yes; refer to prior Phase I and Phase II investigation reports.
Additional assessments in Oct 2010 by Summit

2) Has the site been visited by a regulatory agency representative for any reason?

Yes; Maine DEP and EPA.

3) What is the current use of the property/site?

None, vacant.

4) Are there wetlands on the property/site?

This is a riverfront property.

5) Describe adjacent property use and any features relevant to the property/site?

Refer to reports on adjacent Fuel Depot site.

6) Is the site served by public water supply source and/or sewer service connection?

Yes.

7) What is the age of the building(s)/structure(s)?

Refer to prior Phase I ESA.

8) What background and historical information are known about the site physical conditions, prior use and residential-commercial-industrial operations? Note available site building plans, aerial photography, tax maps, fire insurance maps, etc.:

Refer to prior Phase I ESA.

9) What, if any, are the current or former environmental and land use permits, licenses, etc. held by the existing and former operators/owners of the property/site? Note licenses pertaining to land, air and water; waste handling; operational activities, etc.:

See attached Site Location of Development Permit 2007
Refer to prior Phase I ESA.

10) How has the site property boundaries and/or ownership changed over the years?

Site is actually two lots 7 and 13 Depot St. Ownership changed from Village at Little falls LLC to HRC Village at little Falls sometime around 2007
Refer to prior Phase I ESA.

11) Is there any knowledge of asbestos being present in these building(s)/structure(s) now or in the past?

Yes, refer to reports.

12) Has any type of asbestos survey been conducted in these building(s)/structure(s)?

Yes.

13) Are there any flourescent light fixtures in these structures that may contain ballasts with PCBs?

Yes.

14) Describe past and present heating and cooling systems used in the building(s)/structure(s)?

Refer to prior Phase I ESA.
There are no present or existing heating systems in the buildings

15) Has fill material been brought to the site?

Not known.

16) What is the nature of the fill (e.g., construction debris, trash, clean soil, unknown) and can the source be identified or characterized?

Not known.

17) What is known about the native soil, bedrock or man-made subsurface conditions at the property/site?

Refer to prior Phase I and II ESA reports.
See attached Geotech report 2007

18) Are there currently, or have there been previously, any pits, ponds, lagoons, in-ground storage structures, acid neutralization structures or similar features on the property/site which may have been used in connection with waste treatment or waste disposal?

Refer to prior Phase I ESA.

19) Is the property/site currently used, or has it previously been used, for any of the following: (a) industrial or manufacturing operation, (b) gasoline station, (c) motor repair facility, (d) commercial printing facility, (e) dry cleaners, (f) photo developing laboratory, (g) junk yard or landfill, (h) waste treatment storage, disposal, or recycling facility, (i) burning operations, (j) sand blasting operation, (k) chemical handling operation, or (l) waste staging or transfer location?

Refer to prior Phase I ESA.

20) Are any adjoining properties/sites currently used, or have been used in the past for any of the activities identified in Question #15?

Refer to prior Phase I ESA.

21) Are there currently, or have there been previously, any damaged or discarded automotive or industrial batteries, transformers, paints, solvents, petroleum products or other chemicals, wastes, etc. stored or used at the property/site?

Refer to prior Phase I ESA.

22) Are there currently, or have there been previously, any industrial drums, sacks, pails, or other containers of chemicals, wastes, etc. located on the property/site?

Refer to prior Phase I ESA.
There is one drum of collected fuel oil stored on the site.
There are piles of collected refuse from the initial pcb cleanup that may contain containers but contents are not known.

23) Are there currently, or have there been previously, any underground or aboveground storage tanks (e.g., petroleum, chemical or waste) on the property/site? Note size, age, use, registration, removal, leak detection, tightness testing, spill(s), cleanup or other related information:

Refer to prior Phase I ESA.

24) Are there currently, or have there been previously, any floor drains, sumps or other types of drain pipes inside, outside or beneath the building/structures located at the property/site? Note building layout, construction, floor plans or other types of site plan information:

Refer to prior Phase I ESA.

25) Are there currently, or have there been previously, any evidence of staining on building or ground (e.g., soil, asphalt, etc.) surfaces or any stressed vegetation which may be related to chemicals or waste materials, or which may be related to chemicals or waste materials, or which may be emanating foul odors?

Refer to prior Phase I ESA.

26) Are there currently, or have there been previously, any use of surface water or ground water resources located on or near the property/site?

River use for hydro power.

27) Are there currently, or have there been previously, any water supply wells or monitoring wells located on the property/site? Note any construction details, location or use information:

None known.

28) Are you aware of any environmental liens or governmental notification relating to past or current violations of environmental laws with respect to the property/site, to any facility located on the property/site, or to any properties in the vicinity?

Maine DEP and EPA oversight of current site Brownfields investigation.

29) Are you aware of any environmental litigation or administrative action related to a release or threatened release of any hazardous substance, waste, or petroleum product involving the property or an abutting property?

No.

30) Are there any site safety plans (SSP), spill prevention, countermeasure and control (SPCC) plans or other operational plans for the property/site?

Plans were developed for recent PCB cleanup activity.

31) Other than storm water or water discharged into a sanitary sewer system, does the site facility or facilities discharge waste water onto the subject property/site or onto any adjacent property?

None known.

32) Are there any septic system, dry wells, leachfields, or other subsurface disposal structures on the property/site? Note any construction or location details and evidence of discharges to these systems:

Refer to prior Phase I ESA.

33) Have any hazardous substances, chemical wastes/products or petroleum products been discharged, leaked, spilled, or potentially released on or beneath the property?

Refer to prior Phase I and II ESA reports.

34) Have any demolition debris, hazardous substances, petroleum products, unidentified waste materials, automotive or industrial batteries, tires, trash, refuse, etc. been dumped, buried and/or burned on the property/site?

Refer to prior Phase I and II ESA reports.

35) Are there currently, or have there been previously, any transformers, capacitors, or any hydraulic equipment on the property/site?

Refer to prior Phase I and II ESA reports.

36) List an inventory of existing or former chemical products used and wastes generated at the property/site based on MSDS information, employee information, licensing records, etc.:

Not available. Refer to prior Phase I ESA.
Site has been inactive since 2007.

General Comments:

The undersigned acknowledges and agrees that the information provided in this questionnaire may be reasonably relied upon and that there is no reason to suspect the information to be intentionally false, misleading or inaccurate.

11/8/2010	Stephen Etzel	Asset Manager for HRC Village at Little Falls LLC
Date	Name	Title

Appendix L

Environmental Professional Qualifications

GARTH W. ARMSTRONG

Title: Staff Scientist

Expertise: Phase I ESA's
Petroleum Contamination Investigation/Remediation
Remediation Project Management

Professional History:

April, 2010 – Present	*Summit Environmental Consultants, Inc., Augusta Maine, StaffScientist*
2007 – 2009	*Idexx Laboratories, Westbrook Maine*
2002 – 2007	*Environmental Projects, Inc., Auburn Maine, Project/Operations Manager*

Education: B.S. (2000) Environmental Management, Indiana University School of Public and Environmental Affairs (SPEA), Bloomington, IN.

Certifications: 40-Hour OSHA Hazardous Materials Site Worker Course

Experience Summary:

Mr. Armstrong has experience working on numerous petroleum and hazardous spill sites across the State of Maine. He has participated in all aspects of the remediation process from spill response to hazardous waste consolidation and running large-scale excavations. He also has experience as a project manager and operations management, acting as a liason between Maine DEP and upper management. He is experienced in the classification of hazardous materials and proper disposal procedures.

Project Work:

Crowe Rope, Warren Maine (2005): Project Manager for the removal of approximately 1,000 cubic yards of petroleum contaminated soil along the St. George River. Also responsible for site restoration in order to use the area as a Green Space.

Howland Tannery Brownfield Site (2005): Project Manager for the removal of approximately 2,500 cubic yards of petroleum contaminated soil.

Sanford High School Gymnasium (2005): Project Manager for the removal of lead-contaminated soil and dust from the rafters. The basement of the facility was used as a shooting range for the Sanford Police, which resulted in the accumulation of lead throughout the room, including the soil and dust in the rafters. After surficial cleansing, the rafters were encapsulated with a lead-binding agent to eliminate exposure.

Smith's Junkyard, Meddybemps, Maine (2003): Responsible for proper consolidation and packing of hazardous substances for off-site disposal.

Bates Mill Brownfield Project, Lewiston Maine (2002-2005): Responsible for the removal and proper disposal of hazardous substances within the mill.

International Woolen Mill, Sanford, Maine (2002-2005): Responsible for the removal and proper disposal of hazardous substances within the mill.

Various Clients (2002-2007): Project Manager for the removal of 1000-gallon to 10,000-gallon UST's and contaminated soil associated with the tanks.

Operations Manager, Environmental Projects, Inc. (2005-2007): Responsible for the daily scheduling of multiple crews and maintenance of the company fleet and equipment. Also responsible for the oversight of contaminated materials resulting from daily field operations.

JOHN K. CRESSEY

Title: Project Manager

Expertise: Brownfields Site Assessments and Redevelopment
Phase II ESAs
Petroleum and Hazardous Waste Investigation/Remediation
MEDEP Voluntary Response Action Program (VRAP)
Chemical Characterization and Hazard Classifications

Professional History:

2004-Present	*Summit Environmental Consultants, Inc.*, Augusta, Maine, Project Manager
2001-2004	*Environmental Projects, Inc.*, Auburn, Maine, Disposal Coordinator/Field Chemist/Foreman
1998-2001	*Summit Environmental Consultants, Inc.,* Lewiston, Maine, Staff Scientist
1996-1998	*Nichols Portland*, Portland, Maine, Assistant to the Facilities Manager

Education: B.A. (1997) Environmental Science and Policy, University of Southern Maine, Gorham, Maine
Biology and Environmental Science Major, Davis & Elkins College, Elkins, West Virginia (1993-1994)

Certifications:

40-Hour OSHA Hazardous Materials Site Worker Course
8-hour Universal Waste Training
Innov-X Systems X-Ray Fluorescence Spectrum Analyzer Training Certificate
Radiation Safety Training

Experience Summary:

Mr. Cressey has over 14 years of experience in the environmental consulting and hazardous waste fields including three years as a direct-service contractor. At Summit he manages all aspects of Brownfields Assessments from Phase I ESAs to Feasibility Studies. He has experience in managing projects for private and public sector clients, including large-scale hazardous waste removals, pump and treat systems, spill clean-ups and overseeing environmental sampling. He is experienced in environmental investigations, field sampling events, and report preparation in support of investigations and remedial operations for state and industrial clients. He is also experienced in the completion of ASTM Phase I Environmental Site Assessments, Phase II Environmental Site Assessments, and Transaction Screens, including the interpretation of state regulations. Mr. Cressey has also successfully prepared QAPPs for submittal to EPA and MEDEP and dozens of VRAP applications and agreements with MEDEP.

Project Work

Maine DEP Vapor Intrusion Study (2010-Present). Project Manager for Summit's contract with the MEDEP. Completed project scope and investigations for Cumberland Farms gasoline stations in Augusta and Livermore Falls, Maine. This included soil borings, monitoring well installations, and soil vapor collection of source, utility, and subslab locations.

American Tissue Mill (2008-Present). Project Manager for the oversight of the demolition of the buildings and Phase II ESA activities on an 18-acre former paper mill site on the Kennebec River. Developed the bid specification manual on behalf of the City of Augusta and assisted the City in obtaining a $350,000 USEPA grant to perform a Phase II ESA on the property.

Maine DEP Brownfields Program (2005-Present). Project Manager for Summit's $700,000 contract with the MEDEP. Over the course of the contract Summit has performed Phase I ESAs, Phase II ESAs, and Feasibility Studies across the state from Parsonsfield to Fort Kent.

*Town of Windham (2009-*Present). Project Manager for a $200,000 USEPA City-wide Brownfields Assessment Grant performing Phase I, Phase II ESAs, and Feasibility Studies on behalf of the Town.

Museum L-A (2009-Present). Project Manager for the oversight of the removal of asbestos and lead-based paint from a former woolen mill in Lewiston, Maine as part of a $200,000 USEPA Brownfields Grant. Tasks include development of a Community Relations Plan, Feasibility Study, and a bid specification manual for the removal of these hazardous items.

Androscoggin Mill #8 (2009-Present). Project Manager for a $200,000 USEPA Brownfields Grant for the removal of asbestos from the former Androscoggin Mill #8 as well as the removal and disposal of approximately 400 tons of coal ash-impacted soils. Tasks include development of a bid specification manual for the removal of the building and the soil removal.

MEDEP Bio-Remediation Pilot Project (2008-Present). Project Manager for a MEDEP administered Bio-Remediation soil pile study to determine the viability of bio-piles in the State of Maine year-round. Activities include design and

construction of the piles, overseeing the monthly checks, and developing a conceptual site model for the process.

Apollo Tannery, Camden, Maine (2006-2008). Project Manager completing a 2,000 ton soil removal including the installation of a grout slurry wall under a USEPA Brownfields Grant. Project Manager for a MEDEP-administered Phase II, Site specific QAPP, boring and test pit development as well as on-site soil and groundwater sampling activities and a Feasibility Study.

Old Howland Tannery, Howland, Maine (2006-2008). Project Manager for a MEDEP administered Brownfields project. Completed well abandonment of a storage well and three piezometers under the direction of MEDEP. Completed a VRAP application and assisted the Town and Penobscot River Trust in securing MEDEP Release of Liability for the property. Additionally, Summit completed a Focused Feasibility Study on behalf of the Town of Howland for the portion of the property formerly used as a landfill.

Northern Maine Development Commission Brownfields Assessment Grant, Aroostook County, Maine (2007-Present). Project Manager (teamed with County Environmental Engineering) for a USEPA administered Petroleum Assessment Brownfields project involving eight Phase I ESAs and four Phase II ESAs over the course of three years.

City of Lewiston Brownfields Projects, Lewiston, Maine (2006-2008, 2009-Present). Project Manager for two seperate USEPA administered Hazardous Materials Assessment Brownfields grants involving focused Phase I, Phase II, and Feasibility Studies. Over the course of four years Summit completed nine Phase I ESAs, nine Phase II ESAs, and ten QAPPs.

Dockside Sports, Rangeley, Maine (2007). Project Manager for a MEDEP petroleum cleanup at a former gas station on Rangeley Lake. Involved the removal of three underground storage tanks (USTs) and the removal of approximately 4,000-cubic yards of impacted soil as well as the removal and disposal of approximately 60,000-gallons of groundwater.

Former McCain's Factory, Washburn, Maine (2006-Present). Project Manager for the completion of a Phase I and Phase II ESA on two separate parcels formerly occupied by a french fry factory and an associated wastewater disposal field. Oversaw the completion of a 6,000-cubic yard diesel impacted soil removal under the direction of the MEDEP and a VRAP on behalf of the Town.

Industrial Box and Lumber, Brownfield Site, Parsonsfield, Maine (2006). Project Manager for the regrading of a former landfill area on the Site. Oversaw the completion of a UECA and completion of a VRAP for the MEDEP and the Town of Parsonsfield.

Hanna's Garage, New Harbor, Maine (2005-present). Project Manager overseeing the removal of three USTs, 400 tons of gasoline contaminated, and the installation of a pump and treat system for the MEDEP. In addition, oversaw the installation of a state-of-the-art vaulted gasoline AST system and a soil restivity study to determine the location of bedrock fractures.

Former Pre-Cast Concrete Facility, Auburn, Maine (2005). Project Scientist overseeing soil borings, monitoring well installation, and test pitting activities for a Phase II ESA performed to ascertain site conditions prior to redevelopment. Included filing for and receiving a VRAP agreement with MEDEP on an expedited schedule.

Precision Metals, Brownfield Site, Roxbury, Maine (2004-2005). Project Scientist/Project Manager overseeing the installation of monitoring wells, soil borings and test pits for the MEDEP. Completed Phase II ESA and report per MEDEP requests within a tight schedule and under budget.

Charlotte Smith Property, Meddybemps, Maine (2004). Project Manager and Field Chemist of the characterization and removal of over 40,000 pounds of waste from the basement and garage of a site tied to the Eastern Surplus property. Worked in conjunction with Maine DEP staff to prioritize and safely remove the waste, package it appropriately and have it removed from the site.

Smith's Junkyard, Meddybemps, Maine (2003). Field Chemist and Project Manager overseeing the characterization and removal of over 125,000 pounds of hazardous waste and 3,000 gallons of waste oil in a four-month span. This project included the seizure, labeling and transportation of over 1,000 cylinders in coordination with the Maine DEP to inventory and document possible illegal actions.

Bates Mill Brownfield Project, Lewiston, Maine (1999-2001, 2004-Present). Staff Scientist for the largest Brownfield project in Maine. Project responsibilities include development of documents including the QAPP and Phase II ESA. Conducted the fieldwork and file reviews to coincide with report writing and to develop new strategies and sampling plans.

Affliations:

U.S. Green Building Council, Maine Chapter
Maine Geological Society

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Email: jcressey@summitenv.com

SUMMIT
ENVIRONMENTAL CONSULTANTS INC.

M e m o

To:	Tom Bartell, Town of Windham	**From:**	John Cressey
CC:	Laura Gay, MEDEP	**Date:**	January 5, 2011
	Jean Firth, MEDEP		
	Frank Gardner, USEPA		
	Steve Etzel, Hudson Realty Group		
RE:	Keddy Mill, Windham, Maine		

Tom,

Summit Environmental Consultants, Inc. (Summit) is pleased to provide the Town of Windham with this memorandum documenting soil sampling activities conducted at the Keddy Mill property located at 7 Depot Road in Windham, Maine. See Figure 1 for a Site Location Map.

On October 5, 2010, MEDEP and Summit performed soil sampling within grids developed based upon a 100' x 100', 50' x 50', or 25' x 25' area depending on proximity to the building. The intention of this sampling event was to determine whether or not the exterior soils were impacted with Polychlorinated Biphenyls (PCBs) above the USEPA's Toxic Substance Control Act (TSCA) action guideline of 1 part per million (ppm).

Soil samples were collected from a maximum depth of two inches and collected using a clean pair of disposable nitrile gloves at each sample location. Once samples were collected they were logged onto a chain of custody and shipped to the USEPA Region 1 Environmental Testing Laboratory in North Chelmsford, Massachusetts for analysis of PCBs by the Region 1 Field Method.

<u>North of the east-west roadway</u>

Soil samples were collected starting at Depot Street and extending to the building. Sample concentrations ranged from non-detect near Depot Street to 6.1 ppm within the east-west roadway on-site. In addition, samples collected within the footprint of a former structure north of the current dam structure was observed to contain metal filings (presumed to be from past metal working activities on-site). These samples ranged from 1.2 ppm (C1.2) to 3.2 ppm (C3.2). Summit also utilized the MEDEP's X-Ray Fluorescence (XRF) device to determine if elevated metals were present in this material. The XRF result for lead was noted as 600 ppm. To determine if this material could be used to pinpoint material on-site with the same makeup, a sample was submitted to Maine Environmental Laboratory (MEL) in Yarmouth, Maine for Target Analyte Lsit (TAL) metals. The results of this analysis indicated elevated nickel, iron, and magnesium results. See Table 1 for analytical results and Figure 2 for sample locations.

Adjacent to the North of the Building

Samples immediately adjacent to the building ranged from non-detect to 1,100 ppm near the former generator room doorway at a depth of 0-1 inch. In total, 36 out of the 81 samples collected from north of the building were at or above 1 ppm. See Table 1 for analytical results and Figure 2 for sample locations.

Adjacent to the South of the building

Soil samples were collected starting at the building and extending approximately 120 feet to the south. Sample concentrations ranged from non-detect along the southern edge to 30 ppm along the Presumpscot River's edge and the building foundation at a depth of 0-2 inches. In total, 7 out of the 35 samples collected from south of the building were at or above 1 ppm all but one of these locations was immediately adjacent to the building. One location (G5.4) was located along a roadway and may be an example of transport of the impacted material along these on-site roadways.

East of the building and within north-south roadway

Soil samples were collected starting at the building and extending to the eastern property line. Sample concentrations ranged from non-detect along the eastern edge to 4.5 ppm along the former railroad spur at a depth of 0-2 inches. In total, 4 out of the 18 samples collected along the eastern edge of the building were at or above 1 ppm (all four were immediately adjacent to the building). A section of this area could not be sampled due to a large pit area and a crushed stone bed beside it. This may have been used as a dipping and drying area. The pit could be sampled with the use of a ladder to allow for entry, but the crushed stone bed was noted to be at least two feet thick of stone. An excavator or backhoe would be necessary to attempt to sample this area.

Results

PCB results ranged from non-detect to 1,100 ppm with the majority of the detections being for Aroclors 1248 and 1254, two common types of PCBs used in both dielectric fluids (i.e. transformers) and cutting oils. Because of the levels, spatial distribution and matrix of materials where contamination was detected it appears that we could have two sources of PCB contamination. Low levels could be associated with cutting oil and high levels could be associated with former transformers. The area immediately surrounding the former generator room may be due to past spillage of transformer oils and the transport of these impacted soils along the roadway. The area further to the north of the building (C1.2), to the east of the building, to the south of the building, and along the roadways on-site may be due to former cutting oils and dripping of the metal filings along the roadway, and/or the disposal of these filings on the property.

To develop our conceptual model that there are two sources of PCBs present at the site a sample of the material suspected to be metal cuttings was sampled for TAL metals and PCBs. The analysis confirms that the composition of the material are metal cuttings related to former uses of the property. Additionally, the PCB analyses demonstrate that the cutting oils associated with the metal cutting process are a source of PCBs. The metals analysis also provides information on how future investigations may be able to distinguish between the PCB source areas. PCB contamination associated with the disposal of metal cuttings will likely also have elevated iron, magnesium, and nickel concentrations. PCB contamination associated with the former transformer oil or from cutting

oil will likely have metals concentrations similar to site background soils. Real-time XRF and PCB analyses will provide the information necessary to determine the difference between the sources and further develop the site conceptual model. Remedial actions that address the PCB contamination will also address any potential risks associated with the elevated metal concentrations in the metal cuttings.

Quality Assurance

Fifteen duplicate samples were collected at random locations to provide documentation of repeatability of the results. The relative percent difference between the initial samples and the duplicate samples ranged from 0% to 160% (D3.1.3). Only one duplicate sample was reported as being different than its initial sample in terms of TSCA cleanup requirements. The duplicate sample from C4.3A was reported as 2.5 ppm while the initial sample C4.3 was reported as non-detect for PCBs.

Recommendations

Based upon this sampling event and the potential for exposure at the Site, Summit recommends the following:

1. Work should continue at the Site in compliance with the Self-Implementing Cleanup Plan developed in 2005 and submitted to the USEPA TSCA program.
2. Additional samples should be collected to fill data gaps in the sample locations to further delineate PCB-impacted areas.
3. In the spring, additional security measures will need to be installed to prevent contact with the elevated PCB concentrations located within soils on the Site.

TABLE 1
SOIL SAMPLE RESULTS

TABLE 1: PCB SAMPLE RESULTS
KEDDY MILL
WINDHAM, MAINE

Location	Depth	Time	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
BK-SS-01	0-2"	8:25	Soil	ND	ND	ND	ND	ND	ND	0
BK-SS-02	0-2"	8:29	Soil	ND	ND	ND	ND	ND	ND	0
A2	0-2"	8:35	Soil	ND	ND	ND	ND	ND	ND	0
A3	0-2"	8:37	Soil	ND	ND	ND	ND	ND	ND	0
B1	0-2"	8:45	Soil	ND	ND	0.41	ND	ND	ND	0.41
B2	0-2"	8:47	Soil	ND	ND	1.1	ND	ND	ND	**1.1**
B3	0-2"	8:51	Soil	ND	ND	ND	ND	ND	ND	0
B4	0-2"	8:53	Soil	ND	ND	ND	ND	ND	ND	0
B5	0-2"	8:57	Soil	ND	ND	ND	ND	ND	ND	0
B6	0-2"	9:00	Soil	ND	ND	ND	ND	ND	ND	0
C1.1	0-1"	10:30	Soil	ND	ND	ND	ND	ND	ND	0
C1.2	0-2"	9:55	Soil	ND	ND	1.2	ND	ND	ND	**1.2**
C1.3	0-2"	9:32	Soil	ND	ND	ND	ND	ND	ND	0
C1.4	0-1"	9:25	Soil	ND	ND	0.38	ND	ND	ND	0.38
C1.4.1	0-1"	15:19	Concrete	ND	ND	0.66	ND	ND	ND	0.66
C1.4.4	0-1"	17:16	Concrete	ND	ND	1.5	ND	ND	ND	**1.5**
C2.3	0-2"	9:15	Soil	ND	ND	3.8	ND	ND	ND	**3.8**
C2.3	2-4"	9:17	Soil	ND	ND	0.99	ND	ND	ND	0.99
C2.4.2	0-1"	17:10	Concrete	ND	ND	ND	ND	ND	ND	0
C2.4.3	0-1"	17:13	Concrete	ND	0.63	0.53	ND	ND	ND	**1.16**
C3.1	0-0.5"	9:05	Soil	ND	ND	0.46	ND	ND	ND	0.46
C3.2	0-0.5"	8:55	Soil	ND	ND	0.53	ND	ND	ND	0.53
C3.3	0-1"	14:05	Concrete	ND	ND	ND	ND	ND	ND	0
C3.4	0.5-1"	11:00	Soil	ND	ND	0.3	0.6	ND	ND	0.9
C3.4.1	0-1"	17:07	Concrete	ND	ND	ND	ND	ND	ND	0
C4.1	0-2"	8:50	Soil	ND	ND	6.1	ND	ND	ND	**6.1**
C4.2	1-2"	8:38	Soil	ND	ND	0.16	ND	ND	ND	0.16
C4.3	0.5-1"	10:50	Soil	ND	ND	0.55	0.48	ND	ND	**1.03**
C4.4	1-2"	11:30	Soil	ND	ND	0.34	ND	ND	ND	0.34
C5.1	0.5-2"	8:35	Soil	ND	ND	ND	ND	ND	ND	0
C5.2	0.5-2"	8:30	Soil	ND	ND	0.38	ND	ND	ND	0.38
C5.3	0-0.5"	11:35	Soil	ND	ND	4.3	ND	ND	ND	**4.3**

TABLE 1: PCB SAMPLE RESULTS
KEDDY MILL
WINDHAM, MAINE

Location	Depth	Time	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
BK-SS-01	0-2"	8:25	Soil	ND	ND	ND	ND	ND	ND	0
BK-SS-02	0-2"	8:29	Soil	ND	ND	ND	ND	ND	ND	0
C5.4	0-0.5"	11:45	Soil	ND	ND	1	ND	ND	ND	**1**
C6.1	0.5-2"	8:25	Soil	ND	ND	0.39	ND	ND	ND	0.39
C6.3	0-0.5"	11:48	Soil	ND	ND	0.37	ND	ND	ND	0.37
D1.1	0-1"	11:10	Soil	ND	ND	ND	ND	ND	ND	0
D1.2.1	0-1"	15:21	Soil	ND	ND	ND	ND	ND	ND	0
D1.2.2	0-1"	15:25	Soil	ND	ND	ND	ND	ND	ND	0
D1.2.3	0-1"	14:57	Soil	ND	ND	1.1	ND	ND	ND	**1.1**
D1.2.4	0-1"	14:50	Soil	ND	ND	14	ND	ND	ND	**14**
D1.3	1-2"	11:15	Soil	ND	ND	ND	ND	ND	ND	0
D1.4.1	0.5-1"	15:01	Soil	ND	ND	ND	ND	ND	ND	0
D1.4.2	0.5-1"	14:53	Soil	ND	ND	ND	ND	ND	ND	0
D2.1.1	0-1"	15:30	Concrete	ND	ND	ND	ND	ND	ND	0
D2.1.2	0-1"	15:40	Concrete	ND	3.2	4.2	ND	ND	ND	**7.4**
D2.1.3	0-1"	15:35	Soil	ND	ND	0.53	ND	ND	ND	0.53
D2.1.4	0-1"	15:43	Concrete	ND	ND	75	ND	ND	ND	**75**
D2.2.1	0-1"	14:45	Soil	ND	0.67	1.6	ND	ND	ND	**2.27**
D2.2.2	0-1"	14:33	Soil	ND	0.38	0.6	ND	ND	ND	0.98
D2.2.3	0-1"	14:43	Soil	ND	0.64	0.67	ND	ND	ND	**1.31**
D2.2.4	0-1"	14:40	Soil	ND	0.85	0.52	ND	ND	ND	**1.37**
D3.1.1	0-0.5"	14:10	Soil	ND	29	ND	ND	ND	ND	**29**
D3.1.2	0-1"	14:14	Soil	ND	0.62	0.93	ND	ND	ND	**1.55**
D3.1.3	0-1"	14:16	Soil	ND	1100	ND	ND	ND	ND	**1100**
D3.1.4	0-2"	14:20	Soil	ND	110	ND	ND	ND	ND	**110**
D3.2	0-1"	17:03	Concrete	ND	ND	ND	ND	ND	ND	0
D3.2.1	0-1"	16:30	Soil	ND	ND	2.1	ND	ND	ND	**2.1**
D3.2.2	0-1"	16:51	Soil	ND	ND	2.1	ND	ND	ND	**2.1**
D3.2.3	0-0.5"	16:32	Soil	ND	ND	1.9	ND	ND	ND	**1.9**
D3.2.4	0-1"	16:49	Soil	ND	ND	0.21	ND	ND	ND	0.21
D3.3.1	0-1"	14:25	Soil	ND	35	ND	ND	ND	ND	**35**
D3.3.2	0-1"	14:27	Soil	ND	0.66	0.91	ND	ND	ND	**1.57**

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WINDHAM, MAINE

Location	Depth	Time	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
BK-SS-01	0-2"	8:25	Soil	ND	ND	ND	ND	ND	ND	0
BK-SS-02	0-2"	8:29	Soil	ND	ND	ND	ND	ND	ND	0
D3.4.1	0-1"	16:46	Soil	ND	39	ND	ND	ND	ND	**39**
D3.4.2	0-2"	16:50	Soil	ND	1.7	1.2	ND	ND	ND	**2.9**
D4.1.1	0-1"	16:55	Soil	ND	ND	3.4	ND	ND	ND	**3.4**
D4.1.2	0-2"	16:56	Soil	ND	ND	0.94	ND	ND	ND	0.94
D4.1.3	0-2"	16:43	Soil	ND	ND	0.99	ND	ND	ND	0.99
D4.1.4	0-2"	16:33	Soil	ND	ND	6.3	ND	ND	ND	**6.3**
D4.2.3	0-2"	16:26	Soil	ND	ND	ND	ND	ND	ND	0
D4.2.4	0-2"	16:14	Soil	ND	ND	ND	ND	ND	ND	0
D4.3.1	0-2"	16:46	Soil	ND	ND	30	ND	ND	ND	**30**
D4.3.2	0-2"	16:37	Soil	ND	ND	16	ND	ND	ND	**16**
D4.4.1	0-2"	16:29	Soil	ND	ND	ND	ND	ND	ND	0
D4.4.2	0-2"	16:23	Soil	ND	ND	0.26	ND	ND	ND	0.26
D5.1.3	0-2"	16:10	Soil	ND	ND	1.6	ND	ND	ND	**1.6**
D5.1.4	0-2"	15:37	Soil	ND	ND	4.9	ND	ND	ND	**4.9**
D5.2.3	0-2"	15:35	Soil	ND	ND	2	ND	ND	ND	2
D5.2.4	0-2"	15:33	Soil	ND	ND	1.8	ND	ND	ND	**1.8**
D5.3.1	0-2"	16:05	Soil	ND	ND	0.34	ND	ND	ND	0.34
D5.3.2	0-2"	15:40	Soil	ND	ND	1.4	ND	ND	ND	**1.4**
D6.1.3	0-2"	15:38	Soil	ND	ND	2.6	ND	ND	ND	**2.6**
D6.1.4	0-2"	14:40	Soil	ND	ND	0.43	ND	ND	ND	0.43
D6.4.1	0-2"	14:36	Soil	ND	ND	0.52	ND	ND	ND	0.52
D6.4.3	0-2"	14:34	Soil	ND	ND	ND	ND	ND	ND	0
E3.2.1	0-2"	11:15	Soil	ND	ND	30	ND	ND	ND	**30**
E3.2.2	0-2"	11:20	Soil	ND	ND	2.1	ND	ND	ND	**2.1**
E3.4	0-2"	10:26	Soil	ND	ND	0.28	ND	ND	ND	0.28
E4.1.1	0-2"	11:22	Soil	ND	ND	0.29	ND	ND	ND	0.29
E4.1.2	0-2"	11:25	Soil	ND	ND	ND	ND	ND	ND	0
E4.2.1	0-2"	11:27	Soil	ND	ND	0.23	ND	ND	ND	0.23
E4.2.2	0-2"	11:35	Soil	ND	ND	2.9	ND	ND	ND	**2.9**
E4.2.3	0-2"	11:30	Soil	ND	ND	0.49	ND	ND	ND	0.49

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Location	Depth	Time	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
BK-SS-01	0-2"	8:25	Soil	ND	ND	ND	ND	ND	ND	0
BK-SS-02	0-2"	8:29	Soil	ND	ND	ND	ND	ND	ND	0
E4.2.4	0-2"	11:32	Soil	ND	ND	ND	ND	ND	ND	0
E4.3	0-2"	10:20	Soil	ND	ND	ND	ND	ND	ND	0
E4.4	0-2"	10:30	Soil	ND	ND	ND	ND	ND	ND	0
E5.1.1	0-2"	11:38	Soil	ND	ND	1.3	ND	ND	ND	**1.3**
E5.1.2	0-2"	11:40	Soil	ND	ND	ND	ND	ND	ND	0
E5.1.3	0-2"	11:45	Soil	ND	ND	0.46	ND	ND	ND	0.46
E5.1.4	0-2"	11:50	Soil	ND	ND	ND	ND	ND	ND	0
E5.3.1	0-2"	11:57	Soil	ND	ND	0.56	ND	ND	ND	0.56
E5.3.2	0-2"	11:53	Soil	ND	ND	0.56	ND	ND	ND	0.56
E5.3.4	0-2"	12:00	Soil	ND	ND	ND	ND	ND	ND	0
E6.1.2	0-2"	14:18	Soil	ND	ND	4.2	ND	ND	ND	**4.2**
E6.1.4	0-2"	14:15	Soil	ND	ND	2.5	ND	ND	ND	**2.5**
E6.2.1	0-2"	14:31	Soil	ND	ND	0.19	ND	ND	ND	0.19
E6.2.3	0-2"	14:22	Soil	ND	ND	0.42	ND	ND	ND	0.42
E6.3.2	0-2"	14:12	Soil	ND	ND	2.4	ND	ND	ND	**2.4**
E6.3.4	0-2"	14:04	Soil	ND	ND	4.5	ND	ND	ND	**4.5**
E6.4.1	0-2"	14:08	Soil	ND	ND	ND	ND	ND	ND	0
E6.4.3	0-2"	14:06	Soil	ND	ND	ND	ND	ND	ND	0
F4.1	0.-2"	10:17	Soil	ND	ND	ND	ND	ND	ND	0
F4.2	0-2"	10:12	Soil	ND	ND	0.47	1.2	ND	ND	**1.67**
F4.4	0-2"	10:07	Soil	ND	ND	ND	ND	ND	ND	0
F5.1.2	0-2"	12:07	Soil	ND	ND	0.44	ND	ND	ND	0.44
F5.1.4	0-2"	12:09	Soil	ND	ND	ND	ND	ND	0.92	0.92
F5.3.2	0-2"	12:12	Soil	ND	ND	0.47	ND	ND	ND	0.47
F5.4.3	0-2"	12:16	Soil	ND	ND	1.9	ND	ND	ND	**1.9**
F5.4.4	0-2"	12:19	Soil	ND	ND	0.79	ND	ND	ND	0.79
F6.1.2	0-2"	14:00	Soil	ND	ND	0.67	ND	ND	ND	0.67
F6.1.4	0-2"	13:53	Soil	ND	ND	0.5	ND	ND	ND	0.5
F6.2.1	0-2"	13:58	Soil	ND	ND	ND	ND	ND	ND	0
F6.2.3	0-2"	13:55	Soil	ND	ND	0.22	ND	ND	ND	0.22

TABLE 1: PCB SAMPLE RESULTS
KEDDY MILL
WINDHAM, MAINE

Location	Depth	Time	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs
BK-SS-01	0-2"	8:25	Soil	ND	ND	ND	ND	ND	ND	0
BK-SS-02	0-2"	8:29	Soil	ND	ND	ND	ND	ND	ND	0
F6.3.2	0-2"	13:46	Soil	ND	ND	0.64	ND	ND	ND	0.64
F6.3.3	0-2"	12:22	Soil	ND	ND	0.95	ND	ND	ND	0.95
F6.3.4	0-2"	12:25	Soil	ND	ND	0.98	ND	ND	ND	0.98
F6.4.1	0-2"	13:50	Soil	ND	ND	0.28	ND	ND	ND	0.28
G5.1	0-2"	10:01	Soil	ND	ND	ND	ND	ND	ND	0
G5.2	0-2"	9:55	Soil	ND	ND	0.59	ND	ND	ND	0.59
G5.4	0-2"	9:49	Soil	ND	1.6	0.46	ND	ND	ND	**2.06**
G6.1	0-2"	9:36	Soil	ND	ND	0.83	ND	ND	ND	0.83
G6.2	0-2"	9:31	Soil	ND	0.29	ND	ND	ND	ND	0.29
G6.3	0-2"	9:42	Soil	ND	ND	0.15	ND	ND	ND	0.15
G6.4	0-2"	9:28	Soil	ND	ND	ND	ND	ND	ND	0
H5	0-2"	9:19	Soil	ND	ND	ND	ND	ND	ND	0
H6	0-2"	9:23	Soil	ND	ND	ND	ND	ND	ND	0

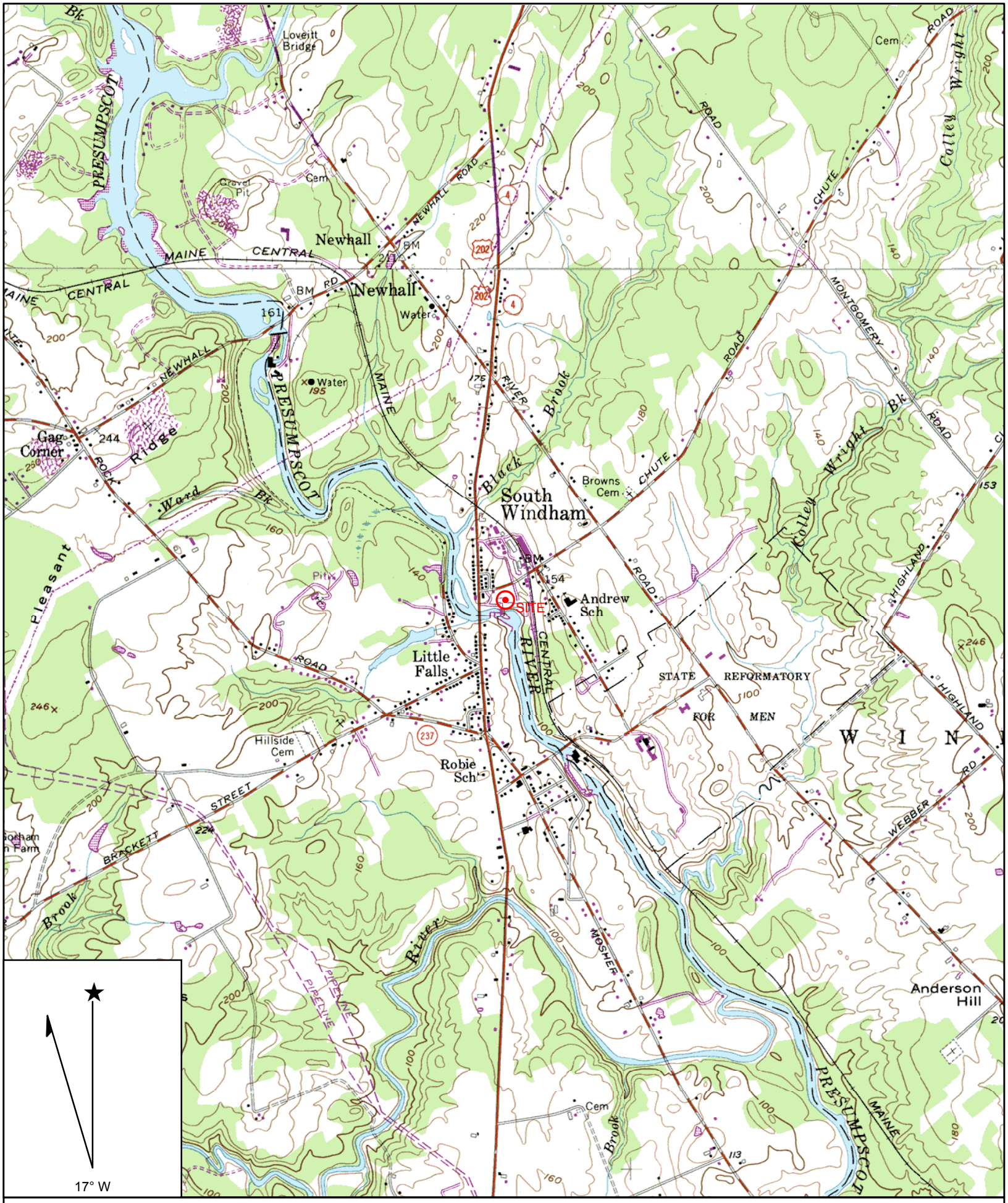
TABLE 2

DUPLICATE SAMPLE RESULTS

FIGURES

Figure 1: Site Location Map

Figure 2: Soil Sample Location Map



Name: GORHAM
Date: 9/3/2010
Scale: 1 inch equals 2000 feet

Location: 043° 44' 04.7" N 070° 25' 28.9" W
Caption: Figure 3-1
Site Location
7 Depot Street
Windham, Maine

Copyright (C) 1997, Maptech, Inc.

Keddy Mill
Windham, ME

Sampling
October 2010

Map Notes:
- Sample location features were collected using a Trimble ProXR GPS Unit. Point locations have an accuracy of < 1 meter and all other features +/- 3 meters.
- Background hydrologic, topographic and political features are from MEGIS data layers with an accuracy of +/- 40 ft.
- All spatial data is projected to NAD 1983 UTM Zone 19.
- All spatial data specific to Maine DEP Bureau of Remediation and Waste Management programs are post-processed, geo-referenced and maintained by John Lynam and Chris Halsted of the Maine DEP GIS Unit.
- This map is to be used for reference purposes only and does not represent authoritative locations of displayed features.

Map Prepared By: Chris Halsted, Maine DEP GIS Unit, 10/27/2010

ATTACHMENT A

USEPA REGION 1 LABORATORY RESULTS

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
60 Westview Street
Lexington, MA 02421-3185

Laboratory Report

October 21, 2010

Frank Gardner - OSRR07-3
US EPA New England R1

Project Number: 10100011
Project: Keddy Mill, 7 Depot Road - Windham, ME
Analysis: PCB's in Soil Field Method (Fixed Lab)
Analyst: Paul Carroll 10.21.10

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, FLDPCB2.SOP.

Concentrations of PCBs in soil were calculated using an external standard technique.

Analysis for PCB's performed by this field analytical technique is used for tentative identification and semi-quantitation of PCB's in soil, oil, and sediment samples.

Date Samples Received by the Laboratory: 10/7/10

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Results for soil samples are reported on a dry weight basis.

If you have any questions please call me at 617-918-8340.

Sincerely,

10/22/10

Daniel Boudreau

Project # 10100011 **PCB's in Soil Field Method (Fixed Lab)**

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
Client Sample ID	E4.2.3	E4.2.4	E4.2.2	E5.1.1	E5.1.2	E5.1.3
Lab Sample ID	AB11038	AB11039	AB11040	AB11041	AB11042	AB11043
Date of Collection	10/5/2010	10/5/2010	10/5/2010	10/5/2010	10/5/2010	10/5/2010
Date of Extraction	10/8/2010	10/8/2010	10/8/2010	10/8/2010	10/8/2010	10/8/2010
Date of Analysis	10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Compound	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg
Aroclor-1242	ND (0.24)	ND (0.22)	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.16)
Aroclor-1248	ND (0.24)	ND (0.22)	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.16)
Aroclor-1254	0.49 (0.24)	ND (0.22)	2.9 (0.20)	1.3 (0.18)	ND (0.24)	0.46 (0.16)
Aroclor-1260	ND (0.24)	ND (0.22)	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.16)
Aroclor-1262	ND (0.24)	ND (0.22)	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.16)
Aroclor-1268	ND (0.24)	ND (0.22)	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	E5.1.4 AB11044 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E5.3.2 AB11045 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E5.3.1 AB11046 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E5.3.4 AB11047 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F5.1.2 AB11048 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F5.1.4 AB11049 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.28)	ND (0.18)	ND (0.28)	ND (0.22)	ND (0.16)
Aroclor-1248	ND (0.20)	ND (0.28)	ND (0.18)	ND (0.28)	ND (0.22)	ND (0.16)
Aroclor-1254	ND (0.20)	0.56 (0.28)	0.56 (0.18)	ND (0.28)	0.44 (0.22)	ND (0.16)
Aroclor-1260	ND (0.20)	ND (0.28)	ND (0.18)	ND (0.28)	ND (0.22)	ND (0.16)
Aroclor-1262	ND (0.20)	ND (0.28)	ND (0.18)	ND (0.28)	ND (0.22)	ND (0.16)
Aroclor-1268	ND (0.20)	ND (0.28)	ND (0.18)	ND (0.28)	ND (0.22)	0.92 (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	F5.3.2 AB11050 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F5.4.3 AB11051 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F5.4.4 AB11052 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.3.3 AB11053 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.3.4 AB11054 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.3.2 AB11055 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)
Aroclor-1248	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)
Aroclor-1254	0.47 (0.18)	1.9 (0.20)	0.79 (0.20)	0.95 (0.18)	0.98 (0.20)	0.64 (0.22)
Aroclor-1260	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)
Aroclor-1262	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)
Aroclor-1268	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.20)	ND (0.22)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	F6.4.1 AB11056 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.1.4 AB11057 10/5/2010 10/8/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.2.3 AB11058 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.2.1 AB11059 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	F6.1.2 AB11060 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E6.3.4 AB11061 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.24)
Aroclor-1248	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.24)
Aroclor-1254	0.28 (0.20)	0.50 (0.22)	0.22 (0.24) L	ND (0.22)	0.67 (0.22)	4.5 (0.24)
Aroclor-1260	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.24)
Aroclor-1262	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.24)
Aroclor-1268	ND (0.20)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.24)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	E6.4.3 AB11062 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E6.4.1 AB11063 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E6.3.2 AB11064 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E6.1.4 AB11065 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	E6.1.2 AB11066 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C1.4.4 AB11067 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.22)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.16)
Aroclor-1248	ND (0.22)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.16)
Aroclor-1254	ND (0.22)	ND (0.18)	2.4 (0.24)	2.5 (0.20)	4.2 (0.24)	1.5 (0.16)
Aroclor-1260	ND (0.22)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.16)
Aroclor-1262	ND (0.22)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.16)
Aroclor-1268	ND (0.22)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D3.1.3 AB11068 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C6.1 AB11069 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C5.2 AB11070 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C5.1 AB11071 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C4.2 AB11072 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C4.1 AB11073 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (19)	ND (0.20)	ND (0.22)	ND (0.26)	ND (0.14)	ND (0.24)
Aroclor-1248	1100 (19)	ND (0.20)	ND (0.22)	ND (0.26)	ND (0.14)	ND (0.24)
Aroclor-1254	ND (19)	0.39 (0.20)	0.38 (0.22)	ND (0.26)	0.16 (0.14)	6.1 (0.24)
Aroclor-1260	ND (19)	ND (0.20)	ND (0.22)	ND (0.26)	ND (0.14)	ND (0.24)
Aroclor-1262	ND (19)	ND (0.20)	ND (0.22)	ND (0.26)	ND (0.14)	ND (0.24)
Aroclor-1268	ND (19)	ND (0.20)	ND (0.22)	ND (0.26)	ND (0.14)	ND (0.24)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	C3.2 AB11074 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C3.1 AB11075 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C2.3 0-2' AB11076 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C2.3 2-4' AB11077 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C1.4 AB11078 10/5/2010 10/12/2010 10/12/2010 Soil Conc. (RL) mg/Kg	C1.3 AB11079 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.26)	ND (0.24)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.20)
Aroclor-1248	ND (0.26)	ND (0.24)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.20)
Aroclor-1254	0.53 (0.26)	0.46 (0.24)	3.8 (0.20)	0.99 (0.26)	0.38 (0.20)	ND (0.20)
Aroclor-1260	ND (0.26)	ND (0.24)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.20)
Aroclor-1262	ND (0.26)	ND (0.24)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.20)
Aroclor-1268	ND (0.26)	ND (0.24)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.20)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	C1.2 AB11080 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C2.1 AB11081 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C1.1 AB11082 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C4.3 AB11083 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C3.4 AB11084 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D1.1 AB11085 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.16)
Aroclor-1248	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.16)
Aroclor-1254	1.2 (0.16)	3.2 (0.18)	ND (0.20)	0.55 (0.18)	0.30 (0.16)	ND (0.16)
Aroclor-1260	ND (0.16)	ND (0.18)	ND (0.20)	0.48 (0.18)	0.60 (0.16)	ND (0.16)
Aroclor-1262	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.16)
Aroclor-1268	ND (0.16)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.16)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D1.3 AB11086 10/5/2010 10/12/2010 10/13/2010 Soil	C4.4 AB11087 10/5/2010 10/12/2010 10/13/2010 Soil	C5.3 AB11088 10/5/2010 10/12/2010 10/13/2010 Soil	C5.4 AB11089 10/5/2010 10/12/2010 10/13/2010 Soil	C6.3 AB11090 10/5/2010 10/12/2010 10/13/2010 Soil	C3.3 AB11091 10/5/2010 10/12/2010 10/13/2010 Soil
	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg	Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.12)	ND (0.20)	ND (0.16)
Aroclor-1248	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.12)	ND (0.20)	ND (0.16)
Aroclor-1254	ND (0.20)	0.34 (0.18)	4.3 (0.24)	1.0 (0.12)	0.37 (0.20)	ND (0.16)
Aroclor-1260	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.12)	ND (0.20)	ND (0.16)
Aroclor-1262	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.12)	ND (0.20)	ND (0.16)
Aroclor-1268	ND (0.20)	ND (0.18)	ND (0.24)	ND (0.12)	ND (0.20)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D3.1.1 AB11092 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.1.2 AB11093 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.1.4 AB11094 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.3.1 AB11095 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.3.2 AB11096 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.2.2 AB11097 10/5/2010 10/12/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (4.4)	ND (0.20)	ND (24)	ND (11)	ND (0.22)	ND (0.22)
Aroclor-1248	29 (4.4)	0.62 (0.20)	110 (24)	35 (11)	0.66 (0.22)	0.38 (0.22)
Aroclor-1254	ND (4.4)	0.93 (0.20)	ND (24)	ND (11)	0.91 (0.22)	0.60 (0.22)
Aroclor-1260	ND (4.4)	ND (0.20)	ND (24)	ND (11)	ND (0.22)	ND (0.22)
Aroclor-1262	ND (4.4)	ND (0.20)	ND (24)	ND (11)	ND (0.22)	ND (0.22)
Aroclor-1268	ND (4.4)	ND (0.20)	ND (24)	ND (11)	ND (0.22)	ND (0.22)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D2.2.4 AB11098 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.2.3 AB11099 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.2.1 AB11100 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D1.2.4 AB11101 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D1.4.2 AB11102 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C1.4.1 AB11103 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.20)	ND (0.14)	ND (0.7)	ND (0.14)	ND (0.18)
Aroclor-1248	0.85 (0.20)	0.64 (0.20)	ND (0.14)	ND (0.7)	ND (0.14)	ND (0.18)
Aroclor-1254	0.52 (0.20)	0.67 (0.20)	0.67 (0.14)	14 (0.7)	ND (0.14)	0.66 (0.18)
Aroclor-1260	ND (0.20)	ND (0.20)	1.6 (0.14)	ND (0.7)	ND (0.14)	ND (0.18)
Aroclor-1262	ND (0.20)	ND (0.20)	ND (0.14)	ND (0.7)	ND (0.14)	ND (0.18)
Aroclor-1268	ND (0.20)	ND (0.20)	ND (0.14)	ND (0.7)	ND (0.14)	ND (0.18)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D1.2.1 AB11104 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D1.2.2 AB11105 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.1.1 AB11106 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.1.3 AB11107 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.1.2 AB11108 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D2.1.4 AB11109 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.22)	ND (0.20)	ND (0.14)	ND (0.16)	ND (8.6)
Aroclor-1248	ND (0.18)	ND (0.22)	ND (0.20)	ND (0.14)	3.2 (0.16)	ND (8.6)
Aroclor-1254	ND (0.18)	ND (0.22)	ND (0.20)	0.53 (0.14)	4.2 (0.16)	75 (8.6)
Aroclor-1260	ND (0.18)	ND (0.22)	ND (0.20)	ND (0.14)	ND (0.16)	ND (8.6)
Aroclor-1262	ND (0.18)	ND (0.22)	ND (0.20)	ND (0.14)	ND (0.16)	ND (8.6)
Aroclor-1268	ND (0.18)	ND (0.22)	ND (0.20)	ND (0.14)	ND (0.16)	ND (8.6)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D3.2.1 AB11110 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.2.3 AB11111 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.4.1 AB11112 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.2.4 AB11113 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D3.2.2 AB11114 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	D4.1.1 AB11115 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.16)	ND (2.2)	ND (0.18)	ND (0.20)	ND (0.24)
Aroclor-1248	ND (0.20)	ND (0.16)	39 (2.2)	ND (0.18)	ND (0.20)	ND (0.24)
Aroclor-1254	2.1 (0.20)	1.9 (0.16)	ND (2.2)	0.21 (0.18)	2.1 (0.20)	3.4 (0.24)
Aroclor-1260	ND (0.20)	ND (0.16)	ND (2.2)	ND (0.18)	ND (0.20)	ND (0.24)
Aroclor-1262	ND (0.20)	ND (0.16)	ND (2.2)	ND (0.18)	ND (0.20)	ND (0.24)
Aroclor-1268	ND (0.20)	ND (0.16)	ND (2.2)	ND (0.18)	ND (0.20)	ND (0.24)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D3.2 AB11116 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C3.4.1 AB11117 10/5/2010 10/13/2010 10/13/2010 Soil Conc. (RL) mg/Kg	C2.4.3 AB11118 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	BKSS-1 AB11119 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	BKSS-2 AB11120 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	A-2 AB11121 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.16)	ND (0.12)	ND (0.18)	ND (0.20)	ND (0.16)	ND (0.16)
Aroclor-1248	ND (0.16)	ND (0.12)	0.63 (0.18)	ND (0.20)	ND (0.16)	ND (0.16)
Aroclor-1254	ND (0.16)	ND (0.12)	0.53 (0.18)	ND (0.20)	ND (0.16)	ND (0.16)
Aroclor-1260	ND (0.16)	ND (0.12)	ND (0.18)	ND (0.20)	ND (0.16)	ND (0.16)
Aroclor-1262	ND (0.16)	ND (0.12)	ND (0.18)	ND (0.20)	ND (0.16)	ND (0.16)
Aroclor-1268	ND (0.16)	ND (0.12)	ND (0.18)	ND (0.20)	ND (0.16)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	A-3 AB11122 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	B-1 AB11123 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	B-2 AB11124 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	B-3 AB11125 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	B-4 AB11126 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	B-5 AB11127 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.14)	ND (0.14)	ND (0.1)	ND (0.18)	ND (0.18)	ND (0.26)
Aroclor-1248	ND (0.14)	ND (0.14)	ND (0.1)	ND (0.18)	ND (0.18)	ND (0.26)
Aroclor-1254	ND (0.14)	0.41 (0.14)	1.1 (0.1)	ND (0.18)	ND (0.18)	ND (0.26)
Aroclor-1260	ND (0.14)	ND (0.14)	ND (0.1)	ND (0.18)	ND (0.18)	ND (0.26)
Aroclor-1262	ND (0.14)	ND (0.14)	ND (0.1)	ND (0.18)	ND (0.18)	ND (0.26)
Aroclor-1268	ND (0.14)	ND (0.14)	ND (0.1)	ND (0.18)	ND (0.18)	ND (0.26)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	B-6 AB11128 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	H-5 AB11129 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	H-6 AB11130 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G6.4 AB11131 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G6.2 AB11132 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G6.3 AB11133 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	ND (0.14)	ND (0.12)
Aroclor-1248	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	0.29 (0.14)	ND (0.12)
Aroclor-1254	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	ND (0.14)	0.15 (0.12)
Aroclor-1260	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	ND (0.14)	ND (0.12)
Aroclor-1262	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	ND (0.14)	ND (0.12)
Aroclor-1268	ND (0.26)	ND (0.26)	ND (0.12)	ND (0.20)	ND (0.14)	ND (0.12)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	G5.4 AB11134 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G5.1 AB11135 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	F4.4 AB11136 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	F4.2 AB11137 10/5/2010 10/13/2010 10/14/2010 Soil Conc. (RL) mg/Kg	F4.1 AB11138 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E4.3 AB11139 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.24)
Aroclor-1248	1.6 (0.18)	ND (0.18)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.24)
Aroclor-1254	0.46 (0.18)	ND (0.18)	ND (0.20)	0.47 (0.26)	ND (0.20)	ND (0.24)
Aroclor-1260	ND (0.18)	ND (0.18)	ND (0.20)	1.2 (0.26)	ND (0.20)	ND (0.24)
Aroclor-1262	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.24)
Aroclor-1268	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.26)	ND (0.20)	ND (0.24)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	E3.4 AB11140 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E3.2.1 AB11141 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E4.4 AB11142 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G5.2 AB11143 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	G6.1 AB11144 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E3.2.2 AB11145 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.22)	ND (3.8)	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.14)
Aroclor-1248	ND (0.22)	ND (3.8)	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.14)
Aroclor-1254	0.28 (0.22)	30 (3.8)	ND (0.20)	0.59 (0.16)	0.83 (0.18)	2.1 (0.14)
Aroclor-1260	ND (0.22)	ND (3.8)	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.14)
Aroclor-1262	ND (0.22)	ND (3.8)	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.14)
Aroclor-1268	ND (0.22)	ND (3.8)	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.14)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	E4.1.1 AB11146 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E4.1.2 AB11147 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E4.2.1 AB11148 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E6.2.3 AB11149 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	E6.2.1 AB11150 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D6.4.3 AB11151 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.16)	ND (0.18)
Aroclor-1248	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.16)	ND (0.18)
Aroclor-1254	0.29 (0.16)	ND (0.22)	0.23 (0.22)	0.42 (0.18)	0.19 (0.16)	ND (0.18)
Aroclor-1260	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.16)	ND (0.18)
Aroclor-1262	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.16)	ND (0.18)
Aroclor-1268	ND (0.16)	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.16)	ND (0.18)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D6.4.1 AB11152 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D6.1.4 AB11153 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D6.1.3 AB11154 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D5.2.4 AB11155 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D5.2.3 AB11156 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg	D5.1.4 AB11157 10/5/2010 10/14/2010 10/14/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.28)	ND (0.18)	ND (0.14)	ND (0.18)	ND (0.18)
Aroclor-1248	ND (0.18)	ND (0.28)	ND (0.18)	ND (0.14)	ND (0.18)	ND (0.18)
Aroclor-1254	0.52 (0.18)	0.43 (0.28)	2.6 (0.18)	1.8 (0.14)	2.0 (0.18)	4.9 (0.18)
Aroclor-1260	ND (0.18)	ND (0.28)	ND (0.18)	ND (0.14)	ND (0.18)	ND (0.18)
Aroclor-1262	ND (0.18)	ND (0.28)	ND (0.18)	ND (0.14)	ND (0.18)	ND (0.18)
Aroclor-1268	ND (0.18)	ND (0.28)	ND (0.18)	ND (0.14)	ND (0.18)	ND (0.18)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D5.3.2 AB11158 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D5.3.1 AB11159 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D5.1.3 AB11160 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.2.4 AB11161 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.4.2 AB11162 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.2.3 AB11163 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.14)	ND (0.32)	ND (0.14)	ND (0.18)	ND (0.18)	ND (0.18)
Aroclor-1248	ND (0.14)	ND (0.32)	ND (0.14)	ND (0.18)	ND (0.18)	ND (0.18)
Aroclor-1254	1.4 (0.14)	0.34 (0.32)	1.6 (0.14)	ND (0.18)	0.26 (0.18)	ND (0.18)
Aroclor-1260	ND (0.14)	ND (0.32)	ND (0.14)	ND (0.18)	ND (0.18)	ND (0.18)
Aroclor-1262	ND (0.14)	ND (0.32)	ND (0.14)	ND (0.18)	ND (0.18)	ND (0.18)
Aroclor-1268	ND (0.14)	ND (0.32)	ND (0.14)	ND (0.18)	ND (0.18)	ND (0.18)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D4.4.1 AB11164 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.1.4 AB11165 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.3.2 AB11166 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.1.3 AB11167 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.3.1 AB11168 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D3.4.2 AB11169 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.84)	ND (1.9)	ND (0.20)	ND (2.8)	ND (0.16)
Aroclor-1248	ND (0.18)	ND (0.84)	ND (1.9)	ND (0.20)	ND (2.8)	1.7 (0.16)
Aroclor-1254	ND (0.18)	6.3 (0.84)	16 (1.9)	0.99 (0.20)	30 (2.8)	1.2 (0.16)
Aroclor-1260	ND (0.18)	ND (0.84)	ND (1.9)	ND (0.20)	ND (2.8)	ND (0.16)
Aroclor-1262	ND (0.18)	ND (0.84)	ND (1.9)	ND (0.20)	ND (2.8)	ND (0.16)
Aroclor-1268	ND (0.18)	ND (0.84)	ND (1.9)	ND (0.20)	ND (2.8)	ND (0.16)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D4.1.2 AB11170 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D1.2.3 AB11171 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D1.4.1 AB11172 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	E5.1.2A AB11173 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	C4.3A AB11174 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	C5.3A AB11175 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.20)
Aroclor-1248	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.20)
Aroclor-1254	0.94 (0.20)	1.1 (0.16)	ND (0.18)	ND (0.24)	ND (0.20)	3.7 (0.20)
Aroclor-1260	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.24)	2.5 (0.20)	ND (0.20)
Aroclor-1262	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.20)
Aroclor-1268	ND (0.20)	ND (0.16)	ND (0.18)	ND (0.24)	ND (0.20)	ND (0.20)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	G6.1A AB11176 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	G5.2A AB11177 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	E4.4A AB11178 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	E3.2.1A AB11179 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D3.1.3A AB11180 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D2.1.1A AB11181 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)	ND (0.18)	ND (0.20)	ND (8.3)	ND (18)	ND (0.18)
Aroclor-1248	ND (0.18)	0.38 (0.18)	ND (0.20)	ND (8.3)	360 (18)	ND (0.18)
Aroclor-1254	0.61 (0.18)	0.49 (0.18)	ND (0.20)	53 (8.3)	ND (18)	ND (0.18)
Aroclor-1260	ND (0.18)	ND (0.18)	ND (0.20)	ND (8.3)	ND (18)	ND (0.18)
Aroclor-1262	ND (0.18)	ND (0.18)	ND (0.20)	ND (8.3)	ND (18)	ND (0.18)
Aroclor-1268	ND (0.18)	ND (0.18)	ND (0.20)	ND (8.3)	ND (18)	ND (0.18)

	US ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND LABORATORY Keddy Mill, 7 Depot Road - Windham, ME					
	D3.2.3A AB11182 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D3.2A AB11183 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	C3.4.1A AB11184 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.1.1A AB11185 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D6.1.3A AB11186 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg	D4.2.4A AB11187 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.26)	ND (0.16)	ND (0.20)
Aroclor-1248	1.5 (0.22)	ND (0.22)	ND (0.18)	ND (0.26)	ND (0.16)	ND (0.20)
Aroclor-1254	1.8 (0.22)	ND (0.22)	ND (0.18)	2.8 (0.26)	3.9 (0.16)	0.34 (0.20)
Aroclor-1260	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.26)	ND (0.16)	ND (0.20)
Aroclor-1262	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.26)	ND (0.16)	ND (0.20)
Aroclor-1268	ND (0.22)	ND (0.22)	ND (0.18)	ND (0.26)	ND (0.16)	ND (0.20)

	S ENVIRONMENTA ROTECTION AGENC ENGLAND LABORA
	C2.4.2 0-1' AB11188 10/5/2010 10/15/2010 10/15/2010 Soil Conc. (RL) mg/Kg
Aroclor-1242	ND (0.18)
Aroclor-1248	ND (0.18)
Aroclor-1254	ND (0.18)
Aroclor-1260	ND (0.18)
Aroclor-1262	ND (0.18)
Aroclor-1268	ND (0.18)

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
A = Suspected Aldol condensation product.
N = Tentatively identified compound.

ATTACHMENT B

MAINE ENVIRONMENTAL LABORATORY REPORTS

434 Cony Road
Augusta, Maine 04240
Voice: 207/621-8334
Fax: 207/626-9094
Email: jcressey@summitenv.com

M e m o

To:	Tom Bartell, Town of Windham	**From:**	John Cressey
CC:	Laura Gay, MEDEP	**Date:**	July 25, 2011
	Jean Firth, MEDEP		
	Frank Gardner, USEPA		
	D. Todd Coffin, GEI		
RE:	Supplemental Sampling, April 2011		
	Keddy Mill, Windham, Maine		

Tom,

Summit Environmental Consultants, Inc. (Summit) is pleased to provide the Town of Windham with this memorandum documenting supplemental soil sampling activities conducted at the Keddy Mill property located at 7 Depot Road in Windham, Maine during the week of April 25, 2011. See Figure 1 for a Site Location Map.

1.0 Background

On October 5, 2010, MEDEP and Summit performed soil sampling for PCBs across the site property. The intention of this sampling event was to determine whether or not the exterior soils were impacted with Polychlorinated Biphenyls (PCBs) above the USEPA's Toxic Substance Control Act (TSCA) action guideline of 1 part per million (ppm). A sample grid was established for the site and included 100-foot, 50-foot, and 25-foot grid spacing to help track sample locations and focus sampling on the area surrounding the mill building. Areas closer to the mill building used the 25-foot spacing to select sample locations, while areas further away from the operations areas utilized the 100-foot grid spacing.

Soil samples were collected from a maximum depth of two inches and collected using a clean pair of disposable nitrile gloves at each sample location. Once samples were collected they were logged onto a chain of custody and shipped to the USEPA Region 1 Environmental Testing Laboratory in North Chelmsford, Massachusetts for analysis of PCBs by the Region 1 Field Method.

PCB results ranged from non-detect to 1,100 ppm with the majority of the detections being for Aroclors 1248 and 1254, two common types of PCBs used in both dielectric fluids (i.e. transformers) and cutting oils. Based on the concentration levels, spatial distribution and matrix of materials where contamination was detected it appears that two sources of PCB contamination are present on the property. Lower concentrations could be associated with cutting oil and higher levels could be associated with former transformers. Based on the preliminary data it appears that the presence of PCB contamination immediately surrounding the former generator room is due to past spillage of

transformer oils and the secondary transport and tracking of the oil and impacted soils from this area onto and along the roadway. Additionally, the data suggests that the area further to the north of the building (C1.2), to the east of the building, to the south of the building, and along the roadways on-site may be due to former cutting oils and dripping of the metal filings along the roadway, and/or the disposal of these filings on the property.

To develop our conceptual model that there are two sources of PCBs present at the site a sample of the material suspected to be metal cuttings was sampled for TAL metals and PCBs. The analysis confirmed that the composition of the materials is metal cuttings related to former uses of the property. Additionally, the PCB analyses support the assumption that the cutting oils associated with the metal cutting process are a source of PCBs. The metals analysis also provides information on how future investigations may be able to distinguish between the PCB source areas.

2.0 2011 Sampling Rational

Based upon the initial 2010 soil investigation, Summit and the MEDEP revised the conceptual site model to include the potential for the steel filings to be a possible source of PCB impacts on the property. These filings, along with the presumed transformer impacts and transport mechanisms required additional sampling to attempt to delineate the areas. Additionally, a site visit completed in March documented the presence of metal slag along the southwestern border of the property. A decision to add this material into the conceptual model was made in order to determine if this material was also a possible source of PCB impacts.

3.0 April 2011 Sampling

Between April 25 and 30, 2011 149 samples were collected following the preapproved QAPP and were analyzed by EPA's Mobile Lab. Samples were collected from depths ranging from 2" to 52" in soils. Concrete samples from the onsite building were collected from the floor, walls and adjacent outside areas at depths ranging from ½" to 1". Ten percent of the samples (twenty five samples) were sent to EPA's laboratory in North Chelmsford. Samples were also screened with an XRF for (lead, calcium, iron, manganese, potassium, and cobalt). Four additional samples were analyzed by Maine Environmental Laboratory (MEL) of Yarmouth, Maine because we exceeded the capacity of EPA. Sample locations are shown on the attached map.

To characterize the three potential sources and to investigate the vertical distribution of PCB contamination in the soils samples were collected from discrete intervals at all locations and, , multiple depth discrete interval sampling was completed at selected locations. The conceptual site model was revised to include the 2011 data which resulted in a more accurate site map of the PCB distribution.

3.1 Exterior Soil Sample Interpretation

Unimpacted Area (North of the east-west roadway [Grids North of B1.3 through B4.1])

Soil samples collected from within this area were reported as non-detect and did not include observable metal filings. This area is to the north of the current fence on the property which was installed in May 2011 at the request of the MEDEP by the current property owner.

AOC-1, 2, and 3 Metal Cutting Source Area (South of the east-west roadway to the building and west of the building)

AOC-1

Sample concentrations ranged from non-detect within the north-south roadway to 18 ppm within the east-west roadway on-site. In addition, a majority of the samples collected along the roadway and within the footprint of a former structure north of the current dam structure were observed to contain metal filings. A correlation between the metal filing in this area and PCB concentrations was observed. The metal filings may have been used as a fill material as this area appears to have been cut and filled. Evidence of a cut on this portion of the site was observed around a tree whose roots (B3.2.3) are exposed approximately one foot above the current grade of the property. See Table 1 for analytical results and Figure 2 for sample locations.

AOC-2

Within this area appears to be a subarea (D2.1 through D4.1) where the source of the impacts may be related to past transformer spillage and/or storage. Samples immediately adjacent to the building ranged from non-detect to 197 ppm near the former generator room doorway at a depth of 4-6 inches. Samples collected from multiple depths along the edge of the building indicated that concentrations of PCBs decrease with depth but may extend to depths greater than 12 inches close to the former generator room (D3.3.1). The PCB impacts may have two sources along the northern edge of the building. Impacts from D4.3.2 to D2.1.4 appear to be related to transformer oil and tracking of these soils. Impacts associated with D5.1.3 to D6.1.2 appear to be associated with cutting oils as metal filings were observed in these locations. See Table 1 for analytical results and Figure 2 for sample locations.

AOC-3

In addition, within this area, soil samples were collected starting at the building and extending approximately 200 feet to the south. Sample concentrations, during this round of sampling, ranged from non-detect to 4.5 ppm (E4.4.2) in the center of this area. This area is within the newly installed fence.

AOC-4, Slag Area (Along the western property boundary and south of the building [south of the approximate slag extent line])

Based on visual observation and XRF results, soils in this AOC (approximately 1-acre) contain metal waste and/or slag material Metal debris was observed to extend to a depth of 52 inches below ground surface (I5.4.2). PCB impacts were observed in four out of the 20 locations sampled over the two sampling rounds. Some of these impacts may be a result of traffic and not related to the metal waste/slag. However, the results from J6.2.3 (0-2" and 2-4") appear to be related to the metal waste material observed in the sample.

AOC-5

Several former building foundations and footprints were discovered within this portion of the property (and extending onto the adjoining property owned by Sappi Fine Paper). The history and function of these buildings are unknown. It appears that waste material observed in the samples (i.e. slag and metal waste) may have been from these buildings and may not be related to activities

at Keddy Mill. Based upon the results and relative unknown past usage in this area, additional investigations are need to characterize this area and determine the relationship to past site related activities at Keddy Mill.

3.2 Building Materials Sampling

Summit and the MEDEP included a limited investigation of concrete building materials in the 2011 investigation. The majority of the samples collected were based upon the locations where sludge was sampled by Ransom Environmental Consultants, Inc. (Ransom) in 2006.

Basement Floor

Twelve concrete samples were collected from within the basement level of the Site building. Six of the samples found elevated PCB concentrations. Sample B-D23 was submitted to the USEPA fixed-based lab and found to contain a total of 2.9 ppm PCBs. Initial screening of this sample in the mobile laboratory encountered interferences, which prevented an accurate determination of the PCB concentration. Results from floor samples were variable and did not indicate a consistent pattern. Future sampling will require tighter grid sampling to segregate impacted and non-impacted floor sections.

First Floor

Seventeen concrete floor and one concrete wall samples were collected from on the first floor of the Site building. Fourteen floor samples were collected from 0-½" with eleven of these samples reporting concentrations above 1 ppm. Three of these elevated floor samples were selected for deeper sampling (½-1"). The results of the deeper samples were very close to the shallow sample results (i.e. all exceeded cleanup standards). One sample collected from a wall (H12W) was reported at a concentration of 9.8 ppm.

Office/Second Floor

One concrete sample was collected at the top of the stairs on the second floor (O-B7). The results for this sample reported a concentration of 4.9 ppm PCBs. As the second floor was the former location of offices and no manufacturing occurred on this floor, it is assumed that this is due to traffic through impacted areas.

Extended Building Area to the East of the Structure

Concrete samples were collected at the east of the building adjacent to the former railroad tracks. Six concrete samples were collected within this area (four within a "breezeway" that connects the northern portion of the Site with the southern portion) and two from within a lower level adjacent to a cement ramp. Five of these concrete samples were reported to contain concentrations of PCB above the cleanup standard. These impacts may be associated with tracking of impacted soils or oil. However, cement samples from depths below ½" were not collected and therefore the depth of PCB contamination in the concrete is unknown in this area . An area bound with concrete walls and filled with crushed stone was observed along the southeastern portion of the building. This stone layer is at least two feet thick and its past usage is not known.

4.0 2011 Results

Total PCB concentrations in soils ranged from non-detect to 197 ppm. Total PCB concentrations were primarily related to Aroclor 1248 and 1254, two common types of PCBs used in both dielectric fluids (i.e. transformers) and cutting oils. Based on the findings and observations of the 2011 sampling, the CSM has been modified to include three potential sources of PCBs in the soils which have impacted five areas of concern identified to date. The three sources of PCB soil contamination include:

- Lower concentrations of PCBs associated with metal filings appear to be related to cutting oils.
- Lower concentrations of PCBs associated with slag material
- Higher concentrations of PCBs associated with the former transformers located in the former generator building.

The five areas of concern with elevated PCB in soils include

- AOC-1 Metal filings area adjacent to the current dam structure
- AOC-2 The transformer Spillage Area
- AOC-3 Area within 200-feet south of the mill building
- AOC-4 The slag area along the western property boundary
- AOC-5, The slag area at the south end of the property

In addition to the three sources of PCB contamination and the five AOCs, the 2011 sampling determined that cement building materials are also contaminated with PCBs on all levels and all areas of the mill building. However, additional sampling will be required to better determine the concentration distribution of PCBs in the building materials.

5.0 Quality Assurance

A conversation with Mr. Scott Clifford, the USEPA field chemist, indicated that the sample results are based upon “wet weight” and therefore are approximately 20-25% lower than they would be if dried prior to analyzing. As a result of this, Summit and the MEDEP determined that samples analyzed by the mobile lab greater than or equal to 0.8 ppm will be considered to be the cutoff for TSCA (instead of 1.0 ppm) at this time. When a cleanup occurs, the post removal sampling should be done in accordance with TSCA rules to verify that it has been done to their satisfaction.

Fifteen duplicate samples were collected at random locations to provide documentation of repeatability of the results. The relative percent difference between the initial samples and the duplicate samples ranged from 0% to 27.05% (B3.4.3). No duplicate samples were reported as being different than its initial sample in terms of TSCA cleanup requirements.

6.0 Recommendations

Based upon the analytical results, Summit recommends the following:

1. A thorough characterization of the soils and building materials be completed to accurately determine the areas requiring cleanup; and

2. Once the characterization is complete, a remediation plan should be developed and submitted to the USEPA TSCA Unit for approval.

TABLE 1
INTERIOR SAMPLE RESULTS

KEDDY MILL
INTERIOR SAMPLING - 4/25 - 4/29

				PCBs			Total		
Grid Location	**Floor**	**Location**	**Depth**	**1254**	**1248**	**1260**	**PCBs**	**Comments**	**Additional Lab Services**
O-B7	Second	Floor	0 - 1/2"	4.9	ND (10)	ND (5)	**4.9**	top of stairs in office area	EPA
C0	First	Floor	0 - 1/2"	20	ND (10)	ND (5)	**20**		
E10	First	Floor	0 - 1/2"	5.2	ND (10)	ND (5)	**5.2**	outside of electrical room	
E23	First	Floor	0 - 1/2"	ND (2)	ND (10)	ND (5)	ND		EPA
E28	First	Floor	0 - 1/2"	5.4	ND (10)	ND (5)	**5.4**		EPA
E28-1	First	Floor	1/2 - 1"	5.2	ND (15)	ND (4)	**5.2**	deeper in E28 location	EPA
E36	First	Floor	0 - 1/2"	69	ND (20)	ND (20)	**69**		
F12	First	Floor	0 - 1/2"	21	ND (10)	2.9	**23.9**		EPA
F12-1	First	Floor	1/2 - 1"	20	ND (10)	3.4	**23.4**	deeper in F-12 location	
F24	First	Floor	0 - 1/2"	50	ND (10)	ND (5)	**50**		
F24-1	First	Floor	1/2 - 1"	57	ND (30)	ND (10)	**57**	deeper in F-24 location	
F42	First	Floor	0 - 1/2"	9.4	ND (10)	ND (2)	**9.4**		
G3	First	Floor	0 - 1/2"	14	ND (10)	ND (5)	**14**		
H12W	First	Wall	0 - 1/2"	ND (4)	9.3	ND (1)	**9.3**	Sample #273	EPA
H27	First	Floor	0 - 1/2"	14	ND (10)	ND (5)	**14**		
H39	First	Floor	0 - 1/2"	57	ND (20)	ND (20)	**57**		
I36	First	Floor	0 - 1/2"	150	ND (50)	ND (30)	**150**		EPA
L42	First	Floor	0 - 1/2"	ND (0.8)	ND (5)	ND (0.8)	ND		EPA
N36	First	Floor	0 - 1/2"	ND (0.2)	ND (0.2)	ND (0.2)	ND		
B-A2	Basement	Floor	0 - 1/2"	ND (0.5)	ND (0.5)	ND (0.3)	ND	on concrete pad near turbine room	
B-D11	Basement	Floor	0 - 1/2"	1.7	4.8	ND (0.8)	**6.5**	generator room	
B-D23W	Basement	Wall	0 - 1/2"	ND (0.8)	Interferences	ND (0.8)	ND	Sample #272, oil-stained wall	EPA
B-E35	Basement	Floor	0 - 1/2"	0.6	ND (5)	ND (0.2)	0.6		
B-F33	Basement	Floor	0 - 1/2"	3.4	ND (3)	0.4	**3.8**		
B-G24	Basement	Floor	0 - 1/2"	95	ND (50)	ND (20)	**95**		EPA
B-G29	Basement	Floor	0 - 1/2"	ND (0.3)	ND (5)	ND (0.2)	ND		EPA
B-G5	Basement	Floor	0 - 1/2"	5.8	2.5	0.7	**9**		EPA
B-I6	Basement	Floor	0 - 1/2"	14	ND (10)	ND (5)	**14**		
B-K37	Basement	Floor	0 - 1/2"	0.3	ND (0.5)	0.2	0.5		
B-R37	Basement	Floor	0 - 1/2"	2.2	ND (3)	0.6	**2.8**	beside the street sweeper	
B-Z37	Basement	Floor	0 - 1/2"	0.7	ND (0.5)	ND (0.4)	0.7	inside small room near concrete motor mounts	

Notes:
All samples were of concrete
ND - Not detected above laboratory detection limits

TABLE 2
EXTERIOR SAMPLE RESULTS

Sample #	Grid Location	Depth	PCBs			Total PCBs	Metals						Comments	Additional Lab Services
			1254	1248	1260		Pb	Ca	Fe	Mn	K	Co		
100	C2.2.2	2 - 4"	1.1	ND (0.5)	ND (0.5)	**1.1**	61	5380	60430	782	11460	3942	metal filings	
101	B3.4.3	0 - 2"	4.7	3.7	0.8	**9.2**	278	6278	81719	1234	6500	8898		
102	C4.1.2	0 - 2"	ND (0.5)	ND (0.5)	3	**3**	48	5152	14137	345	8650	ND		
103	B3.2.4	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	30	2712	16047	355	12691	738		
104	B4.1.4	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	61	3555	14440	323	9395	769		
105	C4.2.1	0 - 2"	3.4	ND (1)	1	**4.4**	29	4151	14129	254	6288	944		
106	B2.1.2	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	469	3255	16027	365	12186	995		
107	B1.4.4	0 - 2"	1	ND (0.3)	ND (0.2)	**1**	33	3048	18193	384	7517	1251		
108	B4.3.3	2 - 4"	ND (0.2)	ND (0.2)	ND (0.2)	ND	23	6579	16217	247	12423	764	within roadway	
109	D3.3.2	2 - 4"	1.9	ND (1)	ND (1)	**1.9**	181	3454	22331	376	9103	1959		
110	D3.4.1	2 - 4"	3.4	20	ND (2)	**23.4**	132	2806	17248	276	4262	1198		EPA (PCBs)
111	D3.4.2	2 - 4"	0.7	ND (0.5)	ND (0.2)	**0.7**	234	12074	34521	1961	4641	3411		
112	D4.3.1	2 - 4"	7.6	ND (10)	ND (8)	**7.6**	73	1313	17233	213	3575	ND	very wet	
113	E6.3.1	0 - $^1/_2$"	6.2	ND (2)	ND (2)	**6.2**	NA	NA	NA	NA	NA	NA	concrete basin (near building)	
114	E6.3.3	0 - $^1/_2$"	ND (0.3)	ND (0.3)	ND (0.2)	ND	NA	NA	NA	NA	NA	NA	concrete basin (away from building)	
115	I7.1.3	2 - 4"	ND (0.3)	ND (0.4)	ND (0.3)	ND	65	2563	12218	263	1109	782	within former railroad spur	
116	I5.4.2	2 - 4"	ND (0.3)	ND (0.3)	ND (0.3)	ND	103	5860	19268	286	5502	850		
117	G5.4.2	2 - 4"	ND (0.3)	ND (0.3)	ND (0.3)	ND	68	4128	43528	534	8496	2619		
118	G5.3.4	2 - 4"	ND (0.3)	ND (0.3)	ND (0.3)	ND	1629	5172	31887	1201	3174	3159	along western property boundary	MEL (LEAD)
119	J6.2.3	2 - 4"	3.6	ND (2)	0.9	**4.5**	82	2896	20214	361	7065	1274	slag pile near property boundary	
120	I6.3.4	0 - 2"	1.3	ND (2)	ND (1)	**1.3**	261	3522	18447	610	5411	1405		
121	H6.1.1	2 - 4"	0.7	ND (0.3)	ND (0.2)	0.7	1297	5224	23613	218	3125	1786	near debris pile	MEL (LEAD)
122	F5.1.3	0 - 2"	0.6	ND (0.3)	0.2	0.8	109	1813	69577	633	6296	5449	within roadway	
123	F4.2.1	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	69	3296	13044	116	2825	1165		
124	D1.2.4	2 - 4"	0.6	ND (0.3)	ND (0.2)	0.6	26	4416	14678	263	11237	ND	gravel drive near Sappi property	
125	D1.2.3	2 - 4"	1.1	ND (0.3)	ND (0.3)	**1.1**	32	3130	15763	271	7800	941	gravel drive near Sappi property	
126	D1.1.4	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	ND	1832	8236	120	6948	565	gravel drive near Sappi property	
127	D6.1.2	4 - 6"	1	ND (0.3)	ND (0.2)	**1**	28	6251	23614	366	7368	1984	olive silty sand below dark loam w/rock fragments	
128	D6.1.1	4 - 6"	6.8	ND (2)	ND (2)	**6.8**	482	5183	32676	596	7951	2606	brown sandy fill	
129	D5.2.2	4 - 6"	2.9	ND (2)	ND (2)	**2.9**	61	2716	34416	649	6839	2428	brown sandy fill w/iron staining	
130	D5.1.3	6 - 8"	6	ND (5)	ND (3)	**6**	76	5058	52668	641	10875	2735	light brown fine-medium sand dark @ depth	
131	D5.1.4	6 - 8"	2.1	ND (1)	ND (1)	**2.1**	59	3400	10916	181	11758	ND	light brown fine-medium sand, loose	
132	D5.2.3	6 - 8"	0.4	ND (0.3)	ND (0.2)	0.4	ND	2544	15522	292	7835	1198		
133	D5.2.4	6 - 8"	0.6	ND (0.3)	ND (0.2)	0.6	33	4450	19797	339	12775	890	gray silty sand below loam, metal	
134	D6.1.3	6 - 8"	1.5	ND (0.5)	0.2	**1.7**	877	5982	27696	525	10193	1800	gray silty sand below loam, metal	
135	D5.3.2	6 - 8"	0.3	ND (0.2)	ND (0.2)	0.3	29	3771	7193	237	12321	ND	light brown fine-medium sand, loose, metal	
200	D3.1.4	2 - 4"	1.1	9.4	ND (1)	**10.5**	126	3329	18160	292	8469	941		
201	D3.1.1	$^1/_2$ - 1"	0.4	ND (0.5)	ND (0.2)	0.4	111	4941	17285	298	9880	943		
202	B2.3.3	1 - 2"	4	3.3	0.5	**7.8**	56	4302	56410	754	10578	5084		
203	B2.1.4	2 - 4"	ND (0.2)	ND (0.2)	ND (0.2)	ND	33	2789	8170	217	9079	531		
204	C1.1.1	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND		2089	7642	128	10430	ND		
205	C1.2.1	2 - 4"	20	ND (20)	ND (5)	**20**	179	4017	>10%	1893	7036	14724		EPA (PCBs)

Sample #	Grid Location	Depth	PCBs			Total PCBs	Metals						Comments	Additional Lab Services
			1254	1248	1260		Pb	Ca	Fe	Mn	K	Co		
206	B1.3.4	0 - 2"	0.3	ND (0.3)	ND (0.3)	0.3	76	5128	17229	347	9364	936		
207	C3.2.3	$^1/_2$ - 1"	0.3	ND (0.3)	0.4	0.7	62	5657	14422	325	12877	697		
208	C2.4.1	0 - 2"	0.3	ND (0.5)	1	**1.3**	33	2062	9528	231	3713	502		
209	D4.2.1	0 - 2"	25	ND (20)	ND (20)	**25**	131	4036	20863	281	9602	955		
210	D4.2.2	0 - 2"	1.5	ND (0.8)	ND (0.5)	**1.5**	73	3737	22144	349	7419	1874		
211	D5.1.1	0 - 2"	3	ND (1)	ND (1)	**3**	118	3435	45761	1419	8638	4354		
212	D5.1.2	0 - 2"	2.3	ND (0.8)	ND (0.8)	**2.3**	88	2983	56611	660	10622	3790		
213	D5.2.1	0 - 2"	1.7	1.6	ND (0.5)	**3.3**	110	3905	67489	688	12335	5090		
214	D5.2.2	0 - 2"	2.3	ND (0.8)	ND (0.8)	**2.3**	72	3692	35594	540	10567	2812		
215	D6.1.1	0 - 2"	1.9	ND (0.5)	0.4	**2.3**	137	5282	>10%	1179	9431	1304	dark brown	
216	D6.1.2	0 - 2"	4.4	ND (3)	1.3	**5.7**	97	8038	66414	1343	9124	5908		
217	F6.4.3	0 - 2"	0.1	0.5	ND (0.2)	0.6	81	4270	22400	248	5860	1382		
218	G5.2.1	0 - 2"	ND (0.3)	ND (0.4)	ND (0.3)	ND	70	3789	48138	556	13134	2978	brown	
219	F5.3.4	0 - 2"	9.3	ND (10)	ND (5)	**9.3**	101	1515	99633	1149	4536	7827		EPA (PCBs)
220	G5.1.4	0 - 2"	0.2	ND (0.5)	ND (0.3)	0.2	478		>10%	1793	7415	29085	beneath telephone pole, metal filings	
221	G5.1.3	0 - 2"	1.6	0.8	ND (0.3)	**2.4**	128	5956	32363	484	7249	2517	along western property boundary	
222	E4.1.1	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	157	3129	10714	436	8180	ND		
223	H5.4.3	0 - 2"	0.2	ND (0.2)	ND (0.2)	0.2	334	4474	23654	330	6307	1485	within utility pole right of way	
224	H6.1.1	0 - 2"	1.4	1.4	ND (0.3)	**2.8**	1256	6344	25559	282	5297	1541		
225	J6.2.3	0 - 2"	3	ND (1)	1.6	**4.6**	83	4402	30661	391	7993	2220	slag pile near property boundary	
226	E4.4.2	0 - 2"	4	ND (2)	0.5	**4.5**	142	4469	31653	369	8357	2884		
227	B3.1.1	0 - 2"	ND (0.2)	ND (0.3)	ND (0.2)	ND	56	1926	11980	298	9601	618		
228	C1.2.1	12 - 14"	5	ND (2)	0.6	**5.6**	65	4650	>10%	1471	5045	17333		EPA (PCBs)
229	B3.4.3	2 - 4"	7.8	10	0.8	**18.6**	53	13216	80401	1100	11203	5133		
230	B3.2.2	2 - 4"	ND (0.2)	ND (0.2)	ND (0.2)	ND	80	5169	39473	470	14862	4252		
231	J7.2.3	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	57	3423	17593	278	8450	ND	within former railroad bed	
232	J7.2.3	2 - 4"	ND (0.3)	ND (0.3)	ND (0.2)	ND	107	3514	21155	269	8642	783	within former railroad bed	
233	I7.2.1	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	70	2386	15749	205	8756	831	within former railroad bed	
234	H7.1.2	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	138	2528	23197	223	6876	30017	within former railroad bed	
235	G6.3.2	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	101	4071	34330	394	9545	2915		
236	C3.4.3	2 - 4"	4.6	ND (1)	ND (1)	**4.6**	120	2637	15433	256	7218	1059		
237	D3.2.2	2 - 4"	1	ND (0.5)	ND (0.3)	1	169	3966	20799	308	7016	1175		
238	D4.1.4	2 - 4"	0.9	ND (0.3)	ND (0.2)	0.9	62	2105	12263	190	4035	735		
239	D4.3.2	2 - 4"	11	ND (10)	ND (8)	**11**	172	1769	12686	329	3688	827		
240	I6.1.1	10 - 12"	ND (0.2)	ND (0.2)	ND (0.2)	ND	283	4139	18713	308	6286	1323		
241	I5.4.2	52 - 54"	ND (0.2)	ND (0.2)	ND (0.2)	ND	52	4302	19091	516	7142	881	bottom of filings @ 52"	
242	H6.3.4	6 - 8"	ND (0.2)	ND (0.2)	ND (0.2)	ND	29	1727	5324	176	8867	ND		EPA (PCBs)
243	B1.2.4	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	59	4380	22536	361	9045	1546		
244	B1.1.4	0 - 2"	ND (0.3)	ND (0.3)	ND (0.2)	ND	26	2805	4070	120	6601	ND		
245	E6.1.3	0 - $^1/_2$"	3.3	ND	0.5	**3.8**	NA	NA	NA	NA	NA	NA	concrete ramp on east side of mill	
246	E6.1.1	0 - $^1/_2$"	6.5	ND (12)	ND (8)	**6.5**	NA	NA	NA	NA	NA	NA	concrete ramp on east side of mill	
247	D6.3.3	0 - $^1/_2$"	3.2	ND (1)	0.7	**3.9**	NA	NA	NA	NA	NA	NA	concrete ramp on east side of mill	

Sample #	Grid Location	Depth	PCBs			Total PCBs	Metals						Comments	Additional Lab Services
			1254	1248	1260		Pb	Ca	Fe	Mn	K	Co		
248	D6.3.1	0 - $^1/_2$"	6	ND (3)	0.9	**6.9**	NA	NA	NA	NA	NA	NA	concrete ramp on east side of mill	
249	C3.4.3	4 - 6"	5.7	ND (2)	ND (2)	**5.7**	148	3754	22750	308	6128	2008		
250	D3.2.2	4 - 6"	0.4	ND (0.3)	ND (0.3)	0.4	94	2314	13313	211	5358	1025		
251	D4.1.4	4 - 6"	ND (0.4)	ND (0.4)	ND (0.2)	ND	89	1940	12555	252	4683	976		
252	D4.3.2	4 - 6"	3.8	ND (3)	ND (3)	**3.8**	201	2682	18012	325	2124	1026	wet	
253	D4.3.1	4 - 6"	NA	NA	NA	NA	279	12820	>10%	624	1844	10978	heavy six oil odor and staining	EPA (PCBs)
254	D3.4.2	4 - 6"	0.9	ND (0.4)	ND (0.4)	0.9	197	2692	20790	303	4960	1032	wet	
255	D3.4.1	4 - 6"	2.8	10	ND (1)	**12.8**	121	3460	19628	360	6417	1353	wet	
256	D3.3.2	4 - 6"	3.4	ND (2)	ND (1)	**3.4**	117	2447	25797	378	8965	1959		
257	D3.3.1	2 - 4"	ND (30)	45	ND (20)	**45**	192	2356	15740	269	4622	1103	soupy wet	
258	A3.3.2	6 - 8"	ND (0.3)	ND (0.3)	ND (0.2)	ND	760	2314	13313	211	5358	1025		
259	D3.3.1	4 - 6"	ND (50)	197	ND (50)	**197**	169	3402	17003	397	6691	882		MEL (PCBs)
260	D4.2.1	4 - 6"	1.2	ND (0.3)	ND (0.3)	**1.2**	91	3833	13294	219	10220	ND		
261	D4.2.2	4 - 6"	0.5	ND (0.3)	ND (0.2)	0.5	31	4890	16076	291	12616	ND		
262	D5.1.1	4 - 6"	2.9	ND (2)	ND (2)	**2.9**	97	4016	30684	564	9265	1893		
263	D5.1.2	4 - 6"	0.3	ND (0.3)	ND (0.2)	0.3	32	4857	17057	297	10952	937		
264	D5.2.1	4 - 6"	8.5	ND (3)	ND (2)	**8.5**	133	4733	64426	804	12119	5642		
265	D3.3.1	10 - 12"	1	3.3	ND (3)	**4.3**	148	3238	19326	357	6591	1320	very wet	
266	B3.4.3	4 - 6"	8.2	11	ND (3)	**19.2**	187	16000	>10%	1448	6559	13152		
267	C4.1.2	2 - 4"	1.3	ND (3)	ND (2)	**1.3**	37	3945	14135	309	9187	1081		
268	C4.2.1	2 - 4"	1.3	ND (2)	ND (0.3)	**1.3**	33	8063	19317	338	11435	1100		
269	B3.2.3	0 - 2"	ND (0.2)	ND (0.2)	ND (0.2)	ND	ND	2299	5357	153	9945	ND	under tree roots	
270	B3.4.3	8 - 10"	2.8	ND (3)	ND (2)	**2.8**	NA	NA	NA	NA	NA	NA		EPA (PCBs)
271	E4.1.3	2 - 4"	ND (0.3)	ND (0.3)	ND (0.3)	ND	NA	NA	NA	NA	NA	NA		EPA (PCBs)
274	D3.1.4	10 - 12"	0.2	ND (0.5)	ND (0.3)	0.2	NA	NA	NA	NA	NA	NA		
275	D5.2.1	12 - 14"	9.8	ND (10)	ND (4)	**9.8**	NA	NA	NA	NA	NA	NA	metal debris throughout	MEL (PCBs)
276	B2.1.4	6 - 8"	NA	NA	NA	NA	ND	2059	3600	150	3169	ND		MEL (PCBs)
300	L6.4.4	0 - 2"	NA	NA	NA	NA	53	7869	19530	273	2475	1721	near property boundary	EPA (PCBs)
301	K6.4.4	0 - 2"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		EPA (PCBs)
302	J6.4.1	0 - 2"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	near slag pile	EPA (PCBs)
303	F5.1.3A	0 - 2"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		EPA (PCBs)
304	F4.2.2	0 - 2"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	under telephone pole	EPA (PCBs)

Notes:

ND - Not detected above laboratory detection limits

NA - Not analyzed

Metals - Pb = Lead, Ca = Calcium, Fe = Iron, Mn = Manganese, K = Potassium, Co = Cobalt

TABLE 3

OFF-SITE LABORATORY SAMPLE RESULTS

Sample #	Grid Location	Depth	PCBs					Total PCBs
			1242	1254	1248	1260	1268	
253	D4.3.1	4 - 6"	ND	ND	1.6	4.7	ND	**6.3**
276	B2.1.4	6-8"	ND	ND	ND	ND	ND	0
300	L6.4.4	0 - 2"	ND	ND	ND	ND	ND	0
301	K6.4.4	0 - 2"	ND	ND	ND	ND	ND	0
302	J6.4.1	0 - 2"	ND	10	ND	ND	ND	**10**
303	F5.1.3A	0 - 2"	ND	0.94	0.75	0.64	ND	**2.33**
304	F4.2.2	0 - 2"	ND	ND	ND	ND	0.13	0.13

TABLE 4
DUPLICATE SAMPLE RESULTS

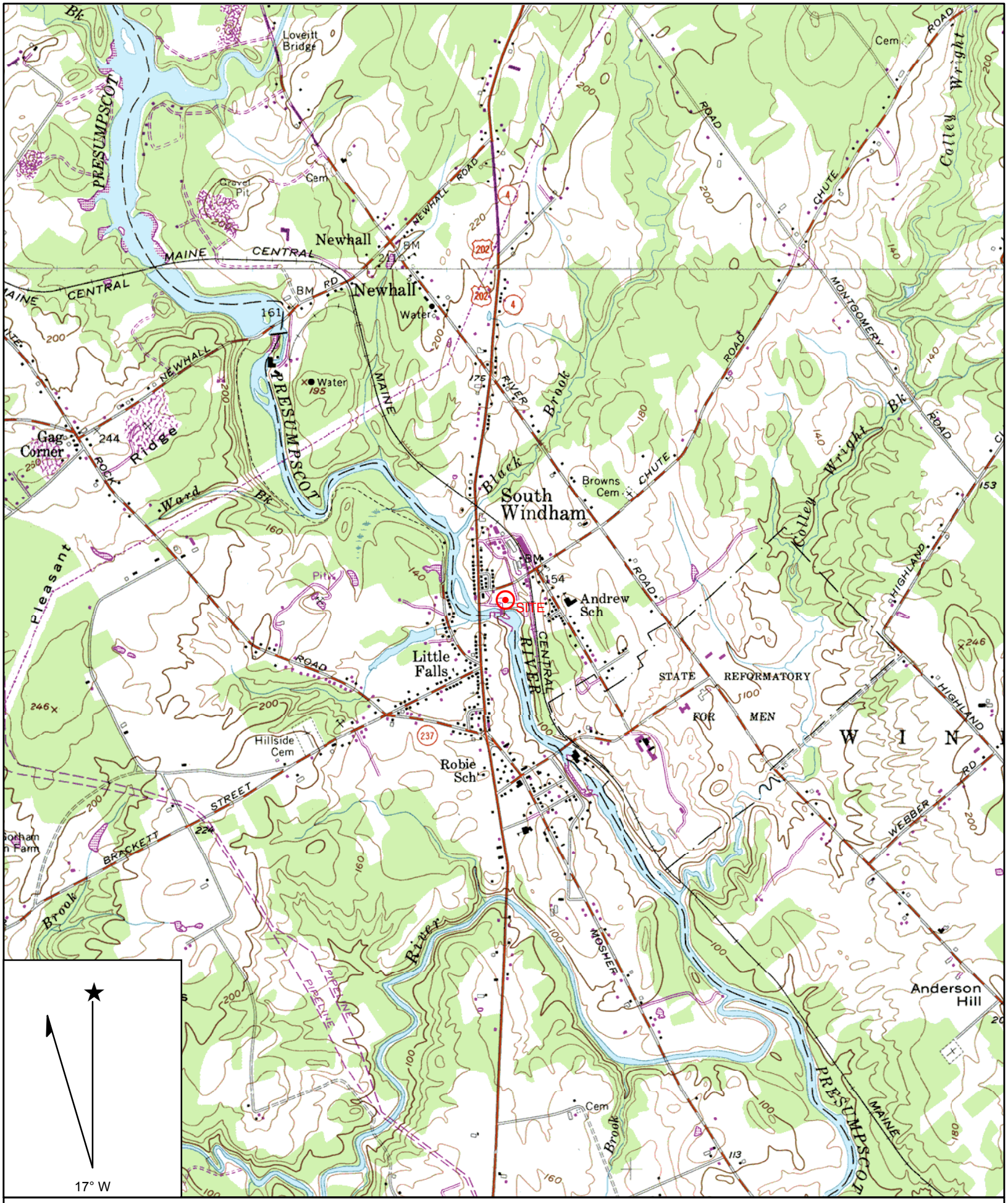
Sample #	Location	Depth	Matrix	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCBs	RPD
E28	E28	0-0.5"	Concrete	ND	3.8	4.4	ND	ND	ND	**8.2**	10.29%
B-G24	B-G24	0-0.5"	Concrete	ND	ND	83	ND	ND	ND	**83**	3.37%
E23	E23	0-0.5"	Concrete	ND	0.46	0.4	ND	ND	ND	0.86	
F12	F12	0-0.5"	Concrete	ND	10	18	ND	ND	ND	**28**	3.95%
E28-1	E28-1	0.5-1"	Concrete	ND	1.1	2.9	ND	ND	ND	**4**	6.52%
B-G5	B-G5	0-0.5"	Concrete	ND	7.5	7.6	ND	ND	ND	**15.1**	12.66%
L42	L42	0-0.5"	Concrete	ND	0.34	0.61	ND	ND	ND	0.95	
I36	I36	0-0.5"	Concrete	ND	ND	130	ND	ND	ND	**130**	3.57%
B-G29	B-G29	0-0.5"	Concrete	ND	0.2	0.3	ND	ND	ND	0.5	
O-B7	O-B7	0-0.5"	Concrete	ND	2.3	3.8	ND	ND	ND	**6.1**	5.45%
205	C1.2.1	2-4"	Soil	ND	ND	7.7	ND	ND	ND	**7.7**	22.20%
242	H6.3.4	0-2"	Soil	ND	ND	ND	ND	ND	ND	0	
219	F5.3.4	0-2"	Soil	ND	ND	13	ND	ND	ND	**13**	8.30%
110	D3.4.1	2-4"	Soil	ND	29	9.5	ND	ND	ND	**38.5**	12.20%
228	C1.2.1	12-14"	Soil	ND	ND	7.3	ND	ND	ND	**7.3**	6.59%
271	E4.1.3	2 - 4"	Soil	ND	ND	ND	ND	ND	ND	0	0.00%
H12W	H12W	0-0.5"	Concrete	ND	2.2	2.6	ND	ND	ND	**4.8**	15.96%
B-D23W	B-D23W	0-0.5"	Concrete	ND	1.5	1.4	ND	ND	ND	**2.9**	
270	B3.4.3	8 - 10"	Soil	ND	4	5.4	ND	ND	ND	**9.4**	27.05%
275	D5.2.1	12 - 14"	Soil	ND	ND	ND	ND	ND	ND	0	
259	D3.3.1	4-6"	Soil	162	ND	ND	ND	ND	ND	**162**	4.87%

RPD = Relative Percent Difference between duplicate and sample

FIGURES

Figure 1: Site Location Map

Figure 2: Soil Sample Location Map



Name: GORHAM
Date: 9/3/2010
Scale: 1 inch equals 2000 feet

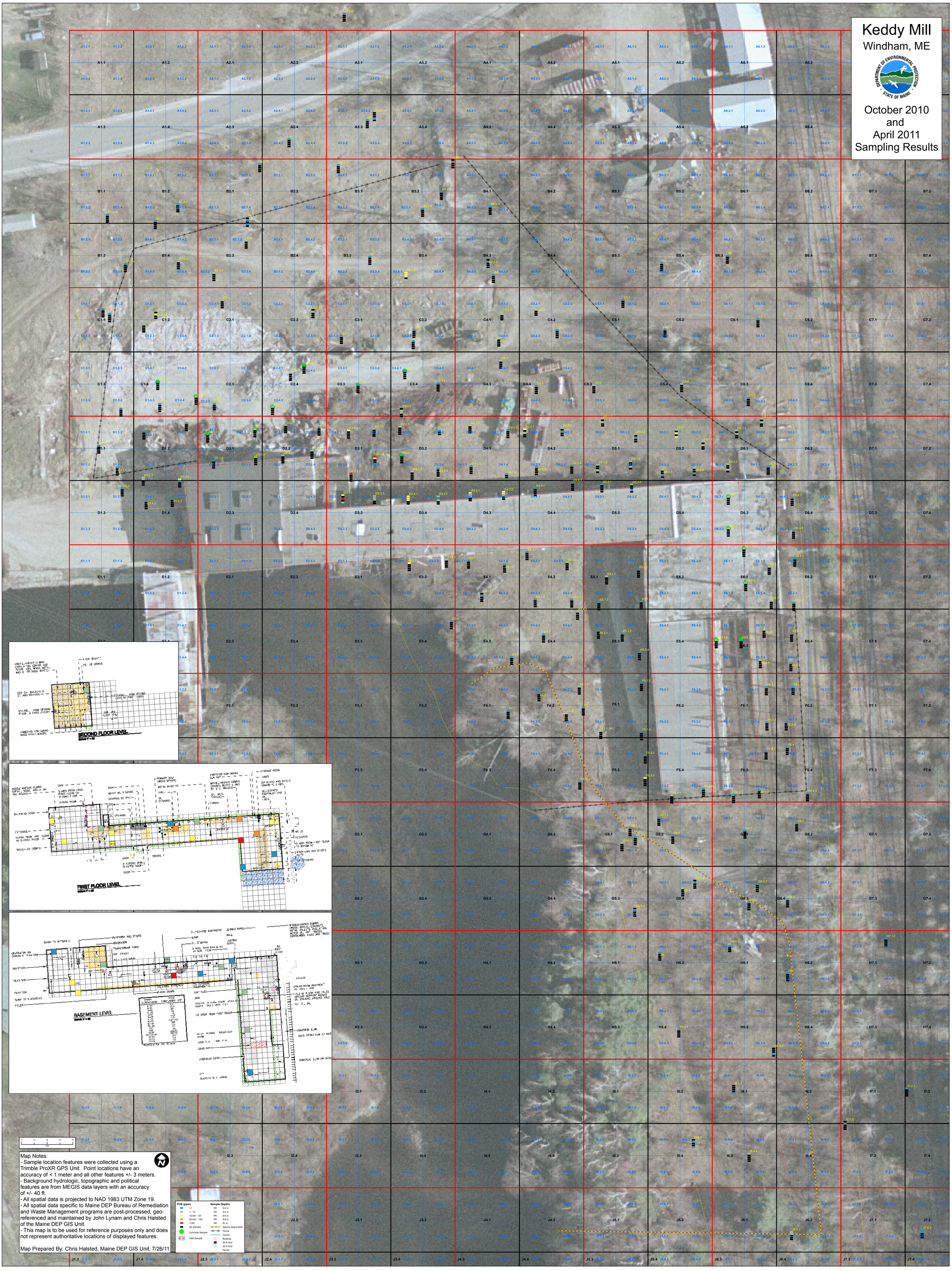
Location: 043° 44' 04.7" N 070° 25' 28.9" W
Caption: Figure 3-1
Site Location
7 Depot Street
Windham, Maine

Copyright (C) 1997, Maptech, Inc.

Keddy Mill

Windham, ME

October 2010
and
April 2011
Sampling Results



Map Notes:
- Sample location features were collected using a Trimble ProXR GPS Unit. Point locations have an accuracy of < 1 meter and all other features +/- 3 meters.
- Background hydrologic, topographic and political features are from MEGIS data layers with an accuracy of +/- 40 ft.
- All spatial data is projected to NAD 1983 UTM Zone 19.
- All spatial data specific to Maine DEP Bureau of Remediation and Waste Management programs are post-processed, geo-referenced and maintained by John Lynam and Chris Halsted of the Maine DEP GIS Unit.
- This map is to be used for reference purposes only and does not represent authoritative locations of displayed features.

Map Prepared By: Chris Halsted, Maine DEP GIS Unit, 7/26/11

PCB (ppm)
- <1
- 1 - 10
- 10.001 - 50
- 50.001 - 100
- >100
- No Sample
- Concrete Sample
- Wall Sample

Sample Depths
- 0-2 in
- 2-4 in
- 4-6 in
- 6-8 in
- 8+ in
- Approx Slag Extent
- Fence
- Trench
- Building
- 50 ft Grid
- 25 ft Grid
- Parcel

ATTACHMENT A

USEPA REGION 1 FIELD LABORATORY RESULTS

1/25/11
ll

Keddy Mill
Windham, ME.
PCB in soil

(1)

Results ppm, wet wt

pelum check
50 49.99gm 1.43= 1.43gm

Shimadzu GC14A 30m, 0.53mm MXT-5 column + ECD
Shimadzu GC 8A 30m 0.53mm MXT-5 column + ECD

Results wet wt - ppm

Sample#	wet wt gms	A1254	A1248	A1260	
Method Blank	—				
IA QC lot D040726 TV= 14.8	0.961	15.4 (104% Rec)	—	—	
F42	1.112	9.4	ND(10)	ND(5)	
E23	0.950	ND(2)	ND(10)	ND(2)	Brown
F24	1.181	50	ND(10)	ND(5)	
E28	0.926	5.4	ND(10)	ND(5)	Black
H27	0.987	14	ND(10)	ND(5)	
E10	0.976	5.2	ND(10)	ND(5)	
F12	0.989	21	ND(10)	2.9 ll	
G3	1.122	14	ND(10)	ND(5)	
CØ	0.998	20	ND(10)	ND(5)	
B-G29	0.968	ND(0.3)	ND(0.5)	ND(0.2)	
B-E35	0.944	0.6	ND(0.5)	ND(0.2)	
B-A2	1.059	ND(0.5)	ND(0.5)	ND(0.3)	
B-G5	1.125	5.8	2.5	0.7	
B-D11	1.035	1.7	4.8	ND(0.8)	
~~B-D11 Lab Dup~~ ll					
CØ Lab Dup	1.101	21	ND(10)	ND(5)	
B-F33	1.003	3.4	ND(3)	0.4	
B-I6	0.965	14	ND(10)	ND(5)	
B-G24	1.051	95	ND(50)	ND(20)	
B-K27	1.155	0.3	ND(0.5)	0.2	
B-Z34	1.022	0.7	ND(0.5)	ND(.4)	
B-R37	1.141	2.2	ND(3)	0.6	

4-26-11
le

Brian crack 50 = 49.98 gm
1.43 = 1.43 gm

Keddy Mill
Windham, ME
PCB in soil Results
ppm, wet wt

(2)

Sample	wet wt gms	A 1254	A1248	A1260	
Method Blank	–	ND (0.2)	ND (0.2)	ND (0.2)	
ERAQC Lot 040726 prep 4/27/11	0.961	14.8 15.0 (101% Rec)			
F24 -1	0.957	57	ND (30)	ND (10)	
E 28 -1	1.040	5.2	ND (15)	ND (4)	Dark Brown
F 12 -1	0.971	20	ND (10)	~~ND~~ 3.4	
I 36	0.975	150	ND (50)	ND (30)	
L 42	1.033	ND (0.8)	ND (5)	ND (0.8)	Brown
N 43	1.096	ND (0.2)	ND (0.2)	ND (0.2)	
O - B70	1.090	4.9	ND (10)	ND (5)	
200	1.076	1.1	9.4	ND (1)	
201	1.084	0.4	ND (0.5)	ND (0.2)	
202	1.174	4.0	3.3	0.5	
203	1.225	ND (0.2)	ND (0.2)	ND (0.2)	
100	1.031	1.1	ND (0.5)	ND (0.5)	
101	1.099	4.7	3.7	0.8	
204	1.207	ND (0.2)	ND (0.2)	ND (0.2)	
205	1.166	20	ND (20)	ND (5)	
206	1.250	0.3	ND (0.3)	ND (0.3)	
206 Lab Dup	1.160	0.4	ND (0.3)	ND (0.3)	
102	1.078	ND (0.5)	ND (0.5)	3.0	
207	1.258	0.3	ND (0.3)	0.4	
208	1.188	0.3	ND (0.5)	1.0	
E 36	0.960	69	ND (20)	ND (20)	
H 39	1.057	57	ND (20)	ND (20)	
209	0.956	25	ND (20)	ND (20)	
210	1.052	1.5	ND (0.8)	ND (0.5)	
211	0.967	3.0	ND (1)	ND (1)	Brown

26-11
ee

Keddy Mill
Windham, ME
PCB in soils
Results ppm, wet wt

(3)

mple	wet wt gms	A 1254	A 1248	A 1260	
212	1.066	2.3	ND(0.8)	ND(0.8)	Dark Brown
213	1.230	1.7	1.6	ND(0.5)	
214	1.065	2.3	ND(0.8)	ND(0.8)	
215	1.123	1.9	ND(0.5)	0.4	
216	1.126	4.4	ND(3)	1.3	
217	1.117	0.1	0.5	ND(0.2)	
218	1.031	ND(0.3)	ND(0.4)	ND(0.3)	
219	1.204	9.3	ND(10)	ND(5)	
220	1.239	0.2	ND(0.5)	ND(0.3)	
221	0.953	1.6	0.8	ND(0.3)	
222	1.085	ND(0.2)	ND(0.2)	ND(0.2)	
222 Lab Dup	1.131	ND(0.2)	ND(0.2)	ND(0.2)	
223	1.040	0.2	ND(0.2)	ND(0.2)	
224	1.020	1.4	1.4	ND(0.3)	
225	1.176	3.0	ND(1)	1.6	
226	1.016	4.0	ND(2)	0.5	
4/27/11 Balance check	50 = 49.99 gm	1.43 = 1.43			
Method Blank	—	ND(0.2)	ND(0.2)	ND(0.2)	
ERA QC Lot D040726 Rep 4/25/11	0.961	TV = 14.8	15.9	107% Rec	— —
103	1.140	ND(0.2)	ND(0.2)	ND(0.2)	
103 Lab Dup	1.256	ND(0.2)	ND(0.2)	ND(0.2)	
104	1.285	ND(0.2)	ND(0.2)	ND(0.2)	
105	1.004	3.4	ND(1)	1.0	
106	1.094	ND(0.2)	ND(0.2)	ND(0.2)	
227	1.044	ND(0.3)	ND(0.3)	ND(0.2)	
228	1.030	5.0	ND(2)	0.6	
229	1.203	7.8	10	0.8	

4-27-11
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Keddy Mill
Windham, ME
PCB in soil

(4)

Results ppm wet wt

Sample #	wet wt gms	A1254	A1248	A1260
107	1.025	1.0	ND (0.3)	ND (0.2)
230	1.069	ND (0.2)	ND (0.2)	ND (0.2)
108	1.161	ND (0.2)	ND (0.2)	ND (0.2)
108 Lab Dup	1.086	ND (0.2)	ND (0.2)	ND (0.2)
231	1.001	ND (0.3)	ND (0.3)	ND (0.2)
232	1.108	ND (0.3)	ND (0.3)	ND (0.2)
233	1.010	ND (0.2)	ND (0.2)	ND (0.2)
234	1.056	ND (0.2)	ND (0.2)	ND (0.2)
235	1.170	ND (0.3)	ND (0.3)	ND (0.2)
236	1.080	4.6	ND (1)	ND (1)
237	1.111	1.0	ND (0.5)	ND (0.3)
238	1.061	0.9	ND (0.3)	ND (0.2)
239	1.386	11	ND (10)	ND (8)
109	1.000	1.9	ND (1)	ND (1)
110	1.042	3.4	20	ND (2)
111	1.053	0.7	ND (0.5)	ND (0.2)
(very wet) 112	2.206	7.6	ND (10)	ND (8)
113	1.079	6.2	ND (2)	ND (2)
115	0.952	ND (0.3)	ND (0.4)	ND (0.2)
116	1.087	ND (0.3)	ND (0.3)	ND (0.2)
114	1.002	ND (0.3)	ND (0.3)	ND (0.2)
240	1.044	ND (0.2)	ND (0.2)	ND (0.2)
241	1.116	ND (0.2)	ND (0.2)	ND (0.2)
242	1.114	ND (0.2)	ND (0.2)	ND (0.2)
243	1.143	ND (0.3)	ND (0.3)	ND (0.2)
244	1.160	ND (0.3)	ND (0.3)	ND (0.2)

.7-11 - 4-28-11
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Keddy Mill
Windham, ME
PCB in Soil

(5)

Results ppm, wet wt

ample #	wet wt gms	A 1254	A 1248	A 1260
245	0.982	3.3		0.5
246	1.005	6.5	ND(17)	ND(8)
247	0.950	3.2	ND(1)	0.7
248	1.191	6.0	ND(3)	0.9
248 lab dup	1.045	5.7	ND(3)	0.7
4-28-11 Balance check	50 =	50.00gm	1.43 =	1.43gm
Method Blank	–	ND(0.2)	ND(0.3)	ND(0.2)
lab D040726 prep 4-25-11	0.961	14.1 (96% rec)	–	–
249	1.058	5.7	ND(2)	ND(2)
250	1.237	0.4	ND(0.3)	ND(0.3)
251	1.034	ND(0.4)	ND(0.4)	ND(0.4)
252	1.729	3.8	ND(3)	ND(3)
253	1.295	~~2.8~~ 2.8	10	ND(1)
254	2.326	0.9	ND(0.4)	ND(0.4)
256	1.168	3.4	ND(2)	ND(1)
257	1.884	ND(30)	45	ND(20) water like
117	1.274	ND(0.3)	ND(0.3)	ND(0.3)
118	1.028	ND(0.3)	ND(0.3)	ND(0.3)
119	1.026	3.6	ND(2)	0.9
120	1.054	1.3	ND(2)	ND(1)
121	1.010	0.7	ND(0.3)	ND(0.2)
122	1.094	0.6	ND(0.3)	0.2
123	0.947	ND(0.3)	ND(0.3)	ND(0.2)
124	1.010	0.6	ND(0.3)	ND(0.2)
125	1.025	1.1	ND(0.3)	ND(0.3)
126	1.013	ND(0.3)	ND(0.3)	ND(0.2)
258	1.089	ND(0.3)	ND(0.3)	ND(0.2)

4-28-11 - 7294
le

4-29-11 Baking 50 = 49.99 gms
each 1.43 = 1.43 gms

Keddy Mill
Windham, ME
PCB in soil
Results - ppm, wet wt

(6)

	Sample #	wet wt gms	A1254	A1248	A1260
wet	259	1.238	ND(50)	197	ND(50)
	260	1.172	1.2	ND(0.3)	ND(0.3)
	261	1.045	0.5	ND(0.3)	ND(0.2)
	262	1.195	2.9	ND(2)	ND(2)
	263	1.218	0.3	ND(0.3)	ND(0.2)
	264	0.942	8.5	ND(3)	ND(2)
	127	1.072	1.0	ND(0.3)	ND(0.2)
	128	1.001	6.8	ND(2)	ND(2)
	129	1.156	2.9	ND(2)	ND(2)
very wet	265	2.284	1.0	3.3	ND(3)
	266	1.069	8.2	11	ND(3)
	267	1.119	1.3	ND(3)	ND(2)
	268	1.159	1.3	ND(2)	ND(0.3)
	132	1.080	0.4	ND(0.3)	ND(0.2)
	133	1.196	0.6	ND(0.3)	ND(0.2)
	134	1.079	1.5	ND(0.5)	0.2
	135	1.099	0.3	ND(0.2)	ND(0.2)
	130	1.194	6.0	ND(5)	ND(3)
	131	1.138	2.1	ND(1)	ND(1)
	133	0.973	0.5	ND(0.3)	ND(0.2)
	269	1.040	ND(0.2)	ND(0.2)	ND(0.2)
4-29-11 le	270	1.172	2.8	ND(3)	ND(2)
	271	1.186	ND(0.3)	ND(0.3)	ND(0.2)
	272	0.921	ND(0.8)	Interferences	ND(0.8)
	273	0.851	ND(4)	9.3 possible	ND(1)
	274	0.902	0.2	ND(0.5)	ND(0.3)
	275	1.067	9.8	ND(10)	ND(4)

ATTACHMENT B

USEPA REGION 1 LABORATORY RESULTS

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

June 09, 2011

Frank Gardner - OSRR07-3
US EPA New England R1

Project Number: 11040099
Project: Keddy Mill, 7 Depot Road - Windham, ME
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll 6.9.11

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

The results are reported on a dry weight basis.

Date Samples Received by the Laboratory : 04/29/2011

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

6/9/11

Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:

RL Reporting limit

ND Not Detected above Reporting limit

NA Not Applicable due to high sample dilutions or sample interferences

J Estimated value

E Estimated value exceeds the calibration range

L Estimated value is below the calibration range

B Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

P The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C The identification has been confirmed by GC/MS.

R No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	300	Lab Sample ID:	AB17118
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/6/11	Percent Solids:	59%
Dry Weight Extracted:	3.686 grams	Extract Dilution:	1
Wet Weight Extracted:	6.262 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.14	
11104-28-2	Aroclor-1221	ND	0.14	
11141-16-5	Aroclor-1232	ND	0.14	
53469-21-9	Aroclor-1242	ND	0.14	
12672-29-6	Aroclor-1248	ND	0.14	
11097-69-1	Aroclor-1254	ND	0.14	
11096-82-5	Aroclor-1260	ND	0.14	
11100-14-4	Aroclor-1262	ND	0.14	
37324-23-5	Aroclor-1268	ND	0.14	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	92	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	301	Lab Sample ID:	AB17119
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	58%
Dry Weight Extracted:	3.826 grams	Extract Dilution:	1
Wet Weight Extracted:	6.550 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.13	
11104-28-2	Aroclor-1221	ND	0.13	
11141-16-5	Aroclor-1232	ND	0.13	
53469-21-9	Aroclor-1242	ND	0.13	
12672-29-6	Aroclor-1248	ND	0.13	
11097-69-1	Aroclor-1254	ND	0.13	
11096-82-5	Aroclor-1260	ND	0.13	
11100-14-4	Aroclor-1262	ND	0.13	
37324-23-5	Aroclor-1268	ND	0.13	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	93	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	302	Lab Sample ID:	AB17120
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	64%
Dry Weight Extracted:	3.998 grams	Extract Dilution:	10
Wet Weight Extracted:	6.239 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	1.30	
11104-28-2	Aroclor-1221	ND	1.30	
11141-16-5	Aroclor-1232	ND	1.30	
53469-21-9	Aroclor-1242	ND	1.30	
12672-29-6	Aroclor-1248	ND	1.30	
11097-69-1	Aroclor-1254	**10**	1.30	
11096-82-5	Aroclor-1260	ND	1.30	
11100-14-4	Aroclor-1262	ND	1.30	
37324-23-5	Aroclor-1268	ND	1.30	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	89	36 - 131
Decachlorobiphenyl	121	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	303	Lab Sample ID:	AB17121
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	87%
Dry Weight Extracted:	5.490 grams	Extract Dilution:	1
Wet Weight Extracted:	6.280 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	**0.75**	0.09	
11097-69-1	Aroclor-1254	**0.94**	0.09	
11096-82-5	Aroclor-1260	**0.64**	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	96	36 - 131
Decachlorobiphenyl	104	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	304	Lab Sample ID:	AB17122
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	80%
Dry Weight Extracted:	4.426 grams	Extract Dilution:	1
Wet Weight Extracted:	5.533 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	**0.13**	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	87	36 - 131
Decachlorobiphenyl	125	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	273	Lab Sample ID:	AB17123
Date of Collection:	4/28/2011	Matrix	Concrete
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	98%
Dry Weight Extracted:	5.063 grams	Extract Dilution:	10
Wet Weight Extracted:	5.149 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.99	
11104-28-2	Aroclor-1221	ND	0.99	
11141-16-5	Aroclor-1232	ND	0.99	
53469-21-9	Aroclor-1242	ND	0.99	
12672-29-6	Aroclor-1248	**2.2**	0.99	
11097-69-1	Aroclor-1254	**2.6**	0.99	
11096-82-5	Aroclor-1260	ND	0.99	
11100-14-4	Aroclor-1262	ND	0.99	
37324-23-5	Aroclor-1268	ND	0.99	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	97	36 - 131
Decachlorobiphenyl	124	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	272	Lab Sample ID:	AB17124
Date of Collection:	4/28/2011	Matrix	Concrete
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	97%
Dry Weight Extracted:	5.010 grams	Extract Dilution:	2
Wet Weight Extracted:	5.155 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.20	
11104-28-2	Aroclor-1221	ND	0.20	
11141-16-5	Aroclor-1232	ND	0.20	
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	**1.5**	0.20	
11097-69-1	Aroclor-1254	**1.4**	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	73	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	228	Lab Sample ID:	AB17125
Date of Collection:	4/27/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	91%
Dry Weight Extracted:	5.372 grams	Extract Dilution:	25
Wet Weight Extracted:	5.912 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	2.30	
11104-28-2	Aroclor-1221	ND	2.30	
11141-16-5	Aroclor-1232	ND	2.30	
53469-21-9	Aroclor-1242	ND	2.30	
12672-29-6	Aroclor-1248	ND	2.30	
11097-69-1	Aroclor-1254	**7.3**	2.30	
11096-82-5	Aroclor-1260	ND	2.30	
11100-14-4	Aroclor-1262	ND	2.30	
37324-23-5	Aroclor-1268	ND	2.30	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	103	36 - 131
Decachlorobiphenyl	133	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	271	Lab Sample ID:	AB17126
Date of Collection:	4/29/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	76%
Dry Weight Extracted:	4.463 grams	Extract Dilution:	1
Wet Weight Extracted:	5.848 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	83	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	270	Lab Sample ID:	AB17127
Date of Collection:	4/29/2011	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/7/11	Percent Solids:	91%
Dry Weight Extracted:	5.315 grams	Extract Dilution:	5
Wet Weight Extracted:	5.839 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
11097-69-1	Aroclor-1254	**5.4**	2.40	
12674-11-2	Aroclor-1016	ND	0.47	
11104-28-2	Aroclor-1221	ND	0.47	
11141-16-5	Aroclor-1232	ND	0.47	
53469-21-9	Aroclor-1242	ND	0.47	
12672-29-6	Aroclor-1248	**4.0**	0.47	
11096-82-5	Aroclor-1260	ND	0.47	
11100-14-4	Aroclor-1262	ND	0.47	
37324-23-5	Aroclor-1268	ND	0.47	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	86	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	5/11/11	Final Volume:	5 mL
Date of Analysis:	6/6/11	Percent Solids:	100%
Dry Weight Extracted:	5.605 grams	Extract Dilution:	1
Wet Weight Extracted:	5.604 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	83	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

PCB MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Keddy Mill, 7 Depot Road - Windham, ME

Sample ID: AB17126

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1254	0.71	ND	0.74	104.23	70 - 130

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1254	0.70	0.67	95.71	9	50

Samples in Batch: AB17118, AB17119, AB17120, AB17121, AB17122, AB17123, AB17124, AB17125, AB17126, AB17127

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY DUPLICATE RESULTS

Keddy Mill, 7 Depot Road - Windham, ME

Sample ID: AB17126

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

June 07, 2011

Frank Gardner - OSRR07-3
US EPA New England R1

Project Number: 11040098
Project: Keddy Mill, 7 Depot Road - Windham, ME
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll PCarroll 6.7.11

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

The results are reported on a dry weight basis.

Date Samples Received by the Laboratory : 04/29/2011

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Daniel N. Boudreau 6/8/11

Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:

RL	Reporting limit
ND	Not Detected above Reporting limit
NA	Not Applicable due to high sample dilutions or sample interferences
J	Estimated value
E	Estimated value exceeds the calibration range
L	Estimated value is below the calibration range
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P	The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C	The identification has been confirmed by GC/MS.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

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Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	E28	Lab Sample ID:	AB17103
Date of Collection:	4/25/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	5/31/11	Percent Solids:	98%
Dry Weight Extracted:	5.73 grams	Extract Dilution:	5
Wet Weight Extracted:	5.82 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.44	
11104-28-2	Aroclor-1221	ND	0.44	
11141-16-5	Aroclor-1232	ND	0.44	
53469-21-9	Aroclor-1242	ND	0.44	
12672-29-6	Aroclor-1248	**3.8**	0.44	
11097-69-1	Aroclor-1254	**4.4**	0.44	
11096-82-5	Aroclor-1260	ND	0.44	
11100-14-4	Aroclor-1262	ND	0.44	
37324-23-5	Aroclor-1268	ND	0.44	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	70	36 - 131
Decachlorobiphenyl	82	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	B-G24	Lab Sample ID:	AB17104
Date of Collection:	4/25/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	97%
Dry Weight Extracted:	5.15 grams	Extract Dilution:	100
Wet Weight Extracted:	5.29 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	9.70	
11104-28-2	Aroclor-1221	ND	9.70	
11141-16-5	Aroclor-1232	ND	9.70	
53469-21-9	Aroclor-1242	ND	9.70	
12672-29-6	Aroclor-1248	ND	9.70	
11097-69-1	Aroclor-1254	**83**	9.70	
11096-82-5	Aroclor-1260	ND	9.70	
11100-14-4	Aroclor-1262	ND	9.70	
37324-23-5	Aroclor-1268	ND	9.70	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	NA	36 - 131
Decachlorobiphenyl	NA	30 - 165

Comments: NA - Surrogate recovery could not be determined due to the dilution required to quantify target analytes.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	E23	Lab Sample ID:	AB17105
Date of Collection:	4/25/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	96%
Dry Weight Extracted:	5.10 grams	Extract Dilution:	1
Wet Weight Extracted:	5.30 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	**0.46**	0.10	
11097-69-1	Aroclor-1254	**0.40**	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	69	36 - 131
Decachlorobiphenyl	72	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	F12	Lab Sample ID:	AB17106
Date of Collection:	4/25/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	97%
Dry Weight Extracted:	4.81 grams	Extract Dilution:	20
Wet Weight Extracted:	4.96 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	2.10	
11104-28-2	Aroclor-1221	ND	2.10	
11141-16-5	Aroclor-1232	ND	2.10	
53469-21-9	Aroclor-1242	ND	2.10	
12672-29-6	Aroclor-1248	**10**	2.10	
11097-69-1	Aroclor-1254	**18**	2.10	
11096-82-5	Aroclor-1260	ND	2.10	
11100-14-4	Aroclor-1262	ND	2.10	
37324-23-5	Aroclor-1268	ND	2.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	90	36 - 131
Decachlorobiphenyl	121	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	E28-1	Lab Sample ID:	AB17107
Date of Collection:	4/26/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	97%
Dry Weight Extracted:	5.05 grams	Extract Dilution:	5
Wet Weight Extracted:	5.18 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	**1.1**	0.50	P
11097-69-1	Aroclor-1254	**2.9**	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	78	36 - 131
Decachlorobiphenyl	116	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	B-G5	Lab Sample ID:	AB17108
Date of Collection:	4/25/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	93%
Dry Weight Extracted:	4.88 grams	Extract Dilution:	10
Wet Weight Extracted:	5.23 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	1.00	
11104-28-2	Aroclor-1221	ND	1.00	
11141-16-5	Aroclor-1232	ND	1.00	
53469-21-9	Aroclor-1242	ND	1.00	
12672-29-6	Aroclor-1248	**7.5**	1.00	
11097-69-1	Aroclor-1254	**7.6**	1.00	
11096-82-5	Aroclor-1260	ND	1.00	
11100-14-4	Aroclor-1262	ND	1.00	
37324-23-5	Aroclor-1268	ND	1.00	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	90	36 - 131
Decachlorobiphenyl	128	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
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Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	L42	Lab Sample ID:	AB17109
Date of Collection:	4/26/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	96%
Dry Weight Extracted:	5.15 grams	Extract Dilution:	1
Wet Weight Extracted:	5.39 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	**0.34**	0.10	
11097-69-1	Aroclor-1254	**0.61**	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	58	36 - 131
Decachlorobiphenyl	82	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	I36	Lab Sample ID:	AB17110
Date of Collection:	4/26/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	96%
Dry Weight Extracted:	5.11 grams	Extract Dilution:	100
Wet Weight Extracted:	5.30 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	9.80	
11104-28-2	Aroclor-1221	ND	9.80	
11141-16-5	Aroclor-1232	ND	9.80	
53469-21-9	Aroclor-1242	ND	9.80	
12672-29-6	Aroclor-1248	ND	9.80	
11097-69-1	Aroclor-1254	**130**	9.80	
11096-82-5	Aroclor-1260	ND	9.80	
11100-14-4	Aroclor-1262	ND	9.80	
37324-23-5	Aroclor-1268	ND	9.80	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	NA	36 - 131
Decachlorobiphenyl	NA	30 - 165

Comments: Surrogate recovery could not be determined due to the dilution that was required to quantify target analytes.

US ENVIRONMENTAL PROTECTION AGENCY
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Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	B-G29	Lab Sample ID:	AB17111
Date of Collection:	4/26/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	93%
Dry Weight Extracted:	4.85 grams	Extract Dilution:	1
Wet Weight Extracted:	5.19 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	**0.20**	0.10	P
11097-69-1	Aroclor-1254	**0.30**	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	75	36 - 131
Decachlorobiphenyl	87	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
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Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	O-B7	Lab Sample ID:	AB17112
Date of Collection:	4/26/2011	Matrix	Concrete
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	97%
Dry Weight Extracted:	5.14 grams	Extract Dilution:	5
Wet Weight Extracted:	5.29 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.49	
11104-28-2	Aroclor-1221	ND	0.49	
11141-16-5	Aroclor-1232	ND	0.49	
53469-21-9	Aroclor-1242	ND	0.49	
12672-29-6	Aroclor-1248	**2.3**	0.49	
11097-69-1	Aroclor-1254	**3.8**	0.49	
11096-82-5	Aroclor-1260	ND	0.49	
11100-14-4	Aroclor-1262	ND	0.49	
37324-23-5	Aroclor-1268	ND	0.49	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	86	36 - 131
Decachlorobiphenyl	103	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	253	Lab Sample ID:	AB17113
Date of Collection:	4/28/2011	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	10 mL
Date of Analysis:	6/1/11	Percent Solids:	78%
Dry Weight Extracted:	0.783 grams	Extract Dilution:	1
Wet Weight Extracted:	1.008 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	1.30	
11104-28-2	Aroclor-1221	ND	1.30	
11141-16-5	Aroclor-1232	ND	1.30	
53469-21-9	Aroclor-1242	ND	1.30	
12672-29-6	Aroclor-1248	**1.6**	1.30	P
11097-69-1	Aroclor-1254	**4.7**	1.30	
11096-82-5	Aroclor-1260	ND	1.30	
11100-14-4	Aroclor-1262	ND	1.30	
37324-23-5	Aroclor-1268	ND	1.30	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	36	36 - 131
Decachlorobiphenyl	32	30 - 165

Comments: This sample exhibited a greasy texture amd was extracted by waste dilution.

US ENVIRONMENTAL PROTECTION AGENCY
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Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	205	Lab Sample ID:	AB17114
Date of Collection:	4/25/2011	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	91%
Dry Weight Extracted:	4.55 grams	Extract Dilution:	20
Wet Weight Extracted:	5.02 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	2.20	
11104-28-2	Aroclor-1221	ND	2.20	
11141-16-5	Aroclor-1232	ND	2.20	
53469-21-9	Aroclor-1242	ND	2.20	
12672-29-6	Aroclor-1248	ND	2.20	
11097-69-1	Aroclor-1254	**7.7**	2.20	
11096-82-5	Aroclor-1260	ND	2.20	
11100-14-4	Aroclor-1262	ND	2.20	
37324-23-5	Aroclor-1268	ND	2.20	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	97	36 - 131
Decachlorobiphenyl	114	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	242	Lab Sample ID:	AB17115
Date of Collection:	4/27/2011	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	93%
Dry Weight Extracted:	5.37 grams	Extract Dilution:	1
Wet Weight Extracted:	5.77 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	78	36 - 131
Decachlorobiphenyl	75	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	219	Lab Sample ID:	AB17116
Date of Collection:	4/27/2011	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	90%
Dry Weight Extracted:	5.62 grams	Extract Dilution:	20
Wet Weight Extracted:	6.27 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	1.80	
11104-28-2	Aroclor-1221	ND	1.80	
11141-16-5	Aroclor-1232	ND	1.80	
53469-21-9	Aroclor-1242	ND	1.80	
12672-29-6	Aroclor-1248	ND	1.80	
11097-69-1	Aroclor-1254	**13**	1.80	
11096-82-5	Aroclor-1260	ND	1.80	
11100-14-4	Aroclor-1262	ND	1.80	
37324-23-5	Aroclor-1268	ND	1.80	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	91	36 - 131
Decachlorobiphenyl	117	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID:	110	Lab Sample ID:	AB17117
Date of Collection:	4/27/2011	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	6/1/11	Percent Solids:	70%
Dry Weight Extracted:	4.18 grams	Extract Dilution:	25
Wet Weight Extracted:	6.01 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	3.00	
11104-28-2	Aroclor-1221	ND	3.00	
11141-16-5	Aroclor-1232	ND	3.00	
53469-21-9	Aroclor-1242	ND	3.00	
12672-29-6	Aroclor-1248	**29**	3.00	
11096-82-5	Aroclor-1260	ND	3.00	
11100-14-4	Aroclor-1262	ND	3.00	
37324-23-5	Aroclor-1268	ND	3.00	
11097-69-1	Aroclor-1254	**9.5**	0.60	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	91	36 - 131
Decachlorobiphenyl	100	30 - 165

Comments: Aroclor 1254 was quantified using a 5X dilution. Aroclor 1248 was quantified using a 25X dilution.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Keddy Mill, 7 Depot Road - Windham, ME

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	5/10/11	Final Volume:	5 mL
Date of Analysis:	5/31/11	Percent Solids:	100%
Dry Weight Extracted:	5.35 grams	Extract Dilution:	1
Wet Weight Extracted:	5.35 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	36 - 131
Decachlorobiphenyl	73	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

PCB MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Keddy Mill, 7 Depot Road - Windham, ME

Sample ID: AB17103

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1254	0.63	4.4	5.4	159.2[illegible]	70 - 130

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1254	0.64	5.0	94.34	51	50

Samples in Batch: AB17103, AB17104, AB17105, AB17106, AB17107, AB17108, AB17109, AB17110, AB17111, AB17112, AB17113, AB17114, AB17115, AB17116, AB17117

Comments: Matrix spike recovery was higher than the QC limit. Consequently, the precision data (RPD) for the MS/MSD pair was higher than the QC limit. The sample contained more than 3 times the spike value of Aroclor 1254.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY DUPLICATE RESULTS

Keddy Mill, 7 Depot Road - Windham, ME

Sample ID: AB17117

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	29	21	32	50
Aroclor-1254	9.5	8.3	13	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

PN 11040098

Summit

Summit Environmental Consultants, Inc.
IH Sample Chain Of Custody

Summit

		PAGE 1 of 2
Summit Environmental 434 Cony Road Augusta, ME 04240 Tel # 207-621-8334 Fax# 207-626-9094	Project Number: 16989.1 Client: TOWN OF WINDHAM Location: KEDDY MILL Project Manager: ~~John Cressey~~ John Cressey Date Results Due:	

Samples Taken By: JKC	Date Samples Taken: 4/25 - 4/29

Lab #	Sample #	Sample Location/ Description	Analysis	Results
E28	E28	CONCRETE W/IN 1ST FLOOR (0-½") 4/25 12:02	PCB	
B-G24	B-G24	CONCRETE W/IN BASEMENT (0-½") 4/25 2:25		
E23	E23	CONCRETE W/IN 1ST FLOOR (0-½") 4/25 12:10		
F12	F12	CONCRETE W/IN 1ST FLOOR (0-½") 4/25 12:35		
E28-1	E28-1	CONCRETE W/IN 1ST FLOOR (½-1") 4/26 8:34		
B-G5	B-G5	CONCRETE W/IN BASEMENT (0-½") 4/25 2:12		
L42	L42	CONCRETE W/IN 1ST FLOOR (0-½") 4/26 9:10		
I36	I36	CONCRETE W/IN 1ST FLOOR (0-½") 4-26 8:50		
B-G29	B-G29	CONCRETE W/IN BASEMENT (0-½") 4/26 12:00		
O-B7	O-B7	CONCRETE W/IN OFFICE (0-½") 4/26 9:03		
253	D4.3.1	SOIL (4-6") 4/28 8:50		
205	C1.2.1A	SOIL (2-4") 4/25 11:30		
242	H6.3.4	SOIL (6-8") 4/27 2:05		
219	F5.3.4	SOIL (2-4") 4/27 2:50		
110	D3.4.1	SOIL (2-4") 4/27 11:09		

ND=None Detected NA=Not Analyzed NEMTA=Not Enough Material To Analyze

Relinquished By [signature]	Date: 4/29	Received By: [signature]	Date: 4-29-11
Company: Summit Environmental	Time: 1053	Company: USEPA Region I	Time: 1120

Relinquished by [signature] 4-29-11 1410hrs

Received by [signature] 4/29/11 1410

ATTACHMENT C

MAINE ENVIRONMENTAL LABORATORY REPORTS

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

Report Number: 69718

Revision: Rev. 0

Re: SME 1011-11

Enclosed are the results of the analyses on your sample(s). Samples were received on 29 April 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
69718-1	04/29/11	275	EPA 8082 (PCBs only)	
69718-2	04/28/11	259	EPA 8082 (PCBs only)	
69718-3	04/29/11	276	Electronic Data Deliverable	
	04/29/11	276	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 5/6/2011

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

May 5, 2011

SAMPLE DATA

Lab Sample ID: 69718-1
Matrix: Solid
Percent Solid: 90
Dilution Factor: 21
Collection Date: 04/29/11
Lab Receipt Date: 04/29/11
Extraction Date: 05/02/11
Analysis Date: 05/04/11

CLIENT SAMPLE ID

Project Name: SME 1011-11

Project Number:

Field Sample ID: 275

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	690	U
PCB-1221	690	U
PCB-1232	690	U
PCB-1242	690	U
PCB-1248	690	U
PCB-1254	690	**9340**
PCB-1260	690	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

May 5, 2011

SAMPLE DATA

Lab Sample ID: 69718-2
Matrix: Solid
Percent Solid: 65
Dilution Factor: 284
Collection Date: 04/28/11
Lab Receipt Date: 04/29/11
Extraction Date: 05/02/11
Analysis Date: 05/04/11

CLIENT SAMPLE ID

Project Name: SME 1011-11

Project Number:

Field Sample ID: 259

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	9370	U
PCB-1221	9370	U
PCB-1232	9370	U
PCB-1242	9370	**162000**
PCB-1248	9370	U
PCB-1254	9370	U
PCB-1260	9370	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

May 5, 2011

SAMPLE DATA

Lab Sample ID: 69718-3
Matrix: Solid
Percent Solid: 83
Dilution Factor: 1.1
Collection Date: 04/29/11
Lab Receipt Date: 04/29/11
Extraction Date: 05/02/11
Analysis Date: 05/04/11

CLIENT SAMPLE ID

Project Name: SME 1011-11

Project Number:

Field Sample ID: 276

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

AEL

MAINE ENVIRONMENTAL LABORATORY- Chain of Custody

One Main Street Yarmouth, Maine 04096-6716 (207) 846-6569 fax: (207) 846-9066
e-mail: melab@maine.rr.com

PROJECT MANAGER: H. Kodis
TELEPHONE:
FAX # / E-MAIL:
COMPANY:
PURCHASE ORDER # / BILL TO:
ADDRESS:
PROJECT NAME: SME1011-11
SAMPLER NAME:

ANALYSES: PCB

LABORATORY REPORT #:

Delivered by:

TURNAROUND REQUEST
☒ Standard 5/11 * [illegible]
☐ Priority (SURCHARGE)

Quote #MEL3120101 3

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION YES	FIELD FILTRATION NO	SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING DATE	SAMPLING TIME	PCB	LABORATORY IDENTIFICATION/ SUBCONTRACTOR
275	1	G		X	Soil	X		≤6°C	4/29/11	9:20	X	69718-1
259	1	↓		↓	↓	↓		↓	4/28/11	10:55	X	-2
276	1	↓		↓	↓	↓		↓	4/29/11	11:30	X	-3

ED 4/29/11

Received within hold time ☒ yes ☐ no ☐ N/A
Received in good condition ☒ yes ☐ no ☐ N/A
Temp. Blank °C 3.5 /Frozen ice packs ☐ N/A
Samples received preserved ☐ yes ☐ no ☐ N/A
Custody seal present ☐ yes ☐ no

COMMENTS: ME DEP EDD (Keddy Mill)

RELINQUISHED BY SAMPLER:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: K Hoppe	DATE 4/29/11	TIME 2:10	RECEIVED BY: [illegible]
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY: ED other

COC-04 [illegible]

PROJECT/SITE	SAMPLE_POINT_ID	LAB_SAMPLE_ID	ANALYSIS_LAB	SAMPLE_DATE	SAMPLE_TYPE	PARAMETER_NAME	CONCENTRATION	LAB_QUALIFIERS	PARAMETER_UNITS	MDL	REPORTING_LIMIT	TEST	PREP_METHOD	ANALYSIS_DATE	CAS_NO	SAMPLED_BY	WEIGHT_BASIS
KEDDY MILL	118	SME101111-01	ME	04/28/11	SL	LEAD	1625		MG/KG	1	4	SW6010B	SW3050B	05/04/11	7439921	JKC	DRY
KEDDY MILL	118	SME101111-01	ME	04/28/11	SL	TOTAL SOLIDS	72.55		%		0.01	CLP4F		05/02/11	DEP1005	JKC	
KEDDY MILL	121	SME101111-02	ME	04/28/11	SL	LEAD	1519		MG/KG	1	4	SW6010B	SW3050B	05/04/11	7439921	JKC	DRY
KEDDY MILL	121	SME101111-02	ME	04/28/11	SL	TOTAL SOLIDS	66.29		%		0.01	CLP4F		05/02/11	DEP1005	JKC	

NORTHEAST TEST CONSULTANTS

INDUSTRIAL HYGIENE MONITORING
(TOTAL DUST, COBALT, LEAD, PCB's)

at

SAPPI - WESTBROOK
LITTLE FALLS HYDRO STATION
WINDHAM, MAINE

NTC JOB #13140-2012

Prepared by:

NORTHEAST TEST CONSULTANTS
587 SPRING STREET
WESTBROOK, ME 04092

Prepared for:

Ms. Jean Wheat
Safety Department
SAPPI - WESTBROOK
P.O. Box 5000
Westbrook, Maine 04098-1597

June 20, 2012

NORTHEAST TEST CONSULTANTS

June 20, 2012

Ms. Jean Wheat
Safety Department
SAPPI - Westbrook
P.O. Box 5000
Westbrook, Maine 04098-1597

RE: Industrial Hygiene Monitoring
Little Falls Hydro Station
NTC Job #13140-2012

Dear Ms. Wheat:

Please find enclosed the analytical data for the Industrial Hygiene Monitoring conducted on June 11, 2012 by *Northeast Test Consultants* at the Little Falls Hydro Station situated off US Route 4/202 in Windham, Maine.

The purpose of this monitoring event was to evaluate the potential for exposure for employees arriving at the hydro station via the dirt driveway. Requested testing parameters were comprised of Total Dust, Cobalt, Lead, and Polychlorinated Biphenyls (PCB's).

Airborne contaminant samples were collected and analyzed utilizing the following sampling protocols:

Total Dusts	-	NIOSH Method	#0500
Cobalt	-	NIOSH Method	#7300M
Lead	-	NIOSH Method	#7300M
PCB's	-	NIOSH Method	#5503

The results found during this sampling event should be compared to the Occupational Safety and Health Administration 29 CFR Part 1910.1000, Table Z-1, *Limits for Air Contaminants* and 29 CFR 1910.1025, *Lead*.

The Permissible Exposure Limit (PEL) for the contaminants tested for are as follows:

Total Dusts	PEL	-	15	mg/m^3	
Cobalt	PEL	-	0.1	mg/m^3	
Lead	PEL	-	50	ug/m^3	[Action Level 30 ug/m^3]
PCB's	PEL	-	1.0	mg/m^3	(42% Chlorine)
			0.5	mg/m^3	(54% Chlorine)

587 Spring Street • Westbrook • Maine 04092 (207) 854-3939 FAX (207) 854-3658

This sampling was conducted after having several dry days.

The weather was partly cloudy with winds at 5-10 mph with wind gusts to 15 mph and an average Temperature of 59 ^{0}F and a Relative Humidity level of 60%.

A review of the data for the samples collected during this monitoring event did not indicated any detectable levels for Total Dust, Cobalt, Lead, and Polychlorinated Biphenyls (PCB's).

Please review the enclosed analytical data sheets for samples collected during this event and the marked drawing.

If you have any questions regarding this report, please feel free to give me a call.

Sincerely,

John M. Boilard, RIHT
Operations Manager

Attachments

NTC Job #13140-2012

POLYCHLORINATED BIPHENYL ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine

Date Sampled: June 11, 2012
Sample Media: Swinnex GFF 226-39
Analytical Method: NIOSH #5503 GC/ECD
Sample Area: Dirt Driveway

Sample/Lab #	Duration	Volume, L	Amount, µg	Result, ppm
PCB-1				
IHA2164006	250 minutes	50	Filter <0.2	**None Detected**
			Front <0.2	**None Detected**
			Rear ND	**None Detected**
			Total <0.2	**None Detected**

OSHA PEL = 1.0 mg/m^3 (42% Chlorine)
0.5 mg/m^3 (54% Chlorine)

Key: L = Liters µg = micrograms ppm = parts per million ND = None Detected

Analytical Lab: **Analytics**

TOTAL DUST, COBALT & LEAD ANALYTICAL RESULTS

Little Falls Hydro Station
Windham, Maine

Date Sampled:	June 11, 2012			
Sample Media:	0.8 Matched Weight MCEF Cassette			
OSHA PEL:	Total Dust	15	mg/m^3	
	Cobalt	0.1	mg/m^3	(0.0001 ug/m^3)
	Lead	50	ug/m^3	[Action Level 30 ug/m^3]
Analytical Method:	Total Dust NIOSH #0500, Lead NIOSH #7300M, Cobalt NIOSH #7300M			
Sample Area:	Dirt Driveway			

Sample #	Minutes	Air Flow Rate l/m	Volume, L	Parameter	Amount	Results
A-1						
IHA2164005	360	2.0	720	Total Dust	<0.10mg	**<0.14 mg/m^3**
				Cobalt	<0.025 µg	**<0.035 $\mu g/m^3$**
				Lead	<0.063 µg	**<0.087 $\mu g/m^3$**

Key: l/m = Liters per minute L = Liters mg = milligrams
mg/m^3 = milligrams per cubic meter µg = micrograms $\mu g/m^3$ = micrograms per cubic meter

Analytical Lab: **Analytics**

BROOK
ON; WINDHAM, MAINE

NORTHEAST TEST CONSULTANTS

NTC JOB # 13140-2012

DRAWING DATE: 6-20-2012
JMB

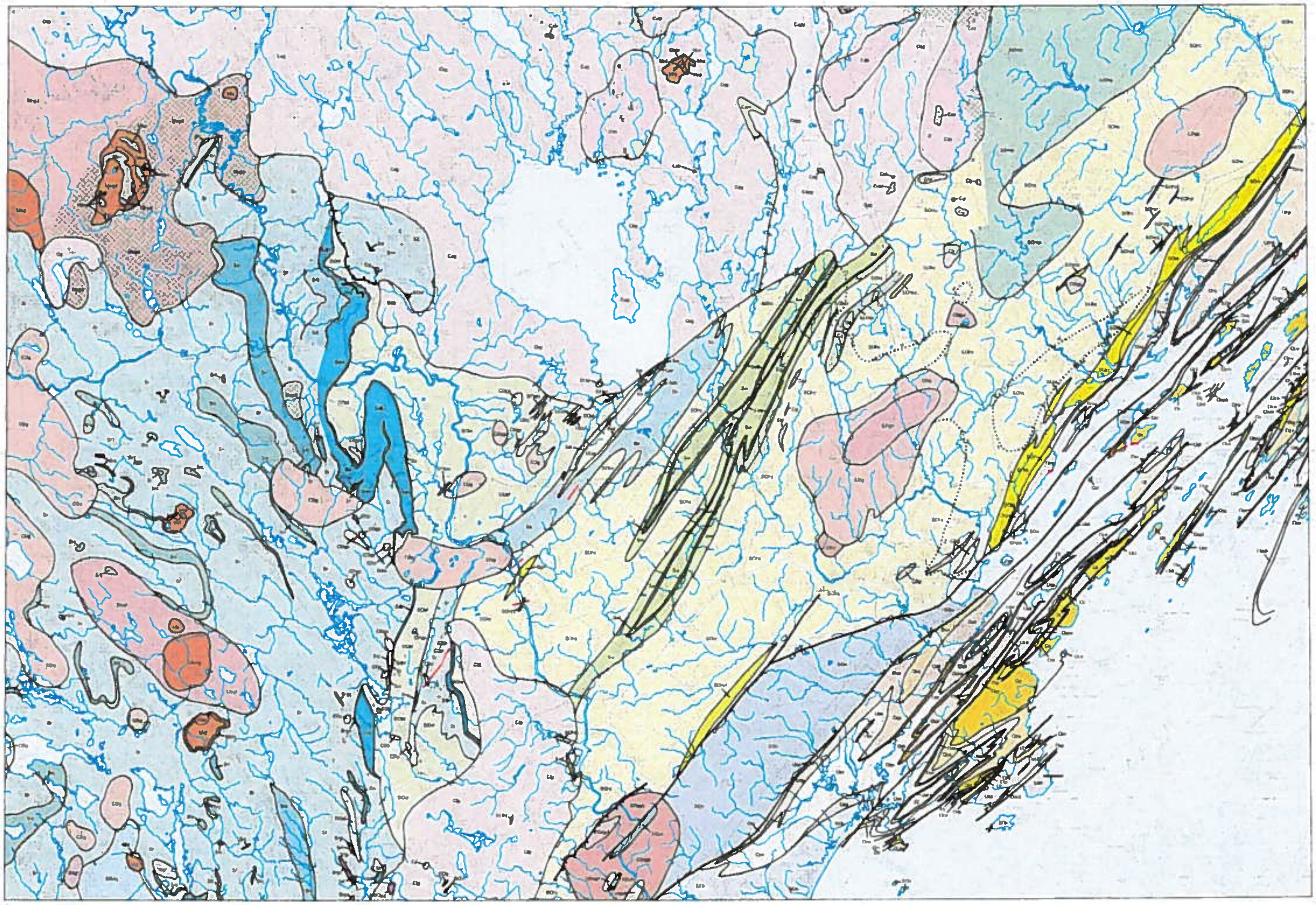
DRAWING NOT TO SCALE

APPENDIX 8

Other Supporting Documentation

Bedrock Geology – Portland West Quadrangle
Significant Sand and Gravel Aquifer – Gorham Quadrangle
Surficial Geology – Portland Quadrangle
US Fish and Wildlife Wetlands Inventory Map
MEDEP Database Plot
List of Remediation Sites Windham, ME
List of Remediation Sites Gorham, ME
List of Registered USTs in Windham, ME
List of Registered USTs in Gorham, ME
List of Active and Out of Service Tanks in Windham, ME
List of Active and Out of Service Tanks in Gorham, ME
List of reported Spills in Windham, ME
List of reported Spills in Gorham, ME
Spill Reports (31)
Powerhouse Plan 1979
Powerhouse Plan 1997
Sediment Stockpile Sample Results – 2001
Sediment Stockpile Sample Results – 2005
Sediment Stockpile Sample Results - 2012
Transformer Oil Test and Correspondence
2010 MEDEP Fish Tissue Data Report for Rivers in Maine
Keddy Mill Boundary Survey with Summit Sampling Points Plotted

Bedrock Geology of the Portland 1:100,000 Quadrangle, Maine and New Hampshire



Map Scale 1:100,000

INTRUSIVE AND RELATED VOLCANIC ROCKS

MESOZOIC

CARBONIFEROUS

CARBONIFEROUS(?)

CARBONIFEROUS(?) OR DEVONIAN(?)

DEVONIAN(?)

STRATIFIED ROCKS

Geologic editors:

Henry N. Berry IV and Arthur M. Hussey II

Contributing geologists:

Henry N. Berry IV, John W. Creasy, Timothy J. Cronon, Matthew R. Engelman, Richard A. Gilman, Chris Guzelski, Arthur M. Hussey II, Robert G. Marvinney, Alexander C. Robinson, Adam Schoonmaker, and Pauline M. Shyka

Cartographic design and production by:

Robert D. Tucker, Bennett J. Wilson, Jr., and Robert A. Johnston

Robert G. Marvinney, State Geologist

Funding for the preparation of this map was provided in part by the U.S. Geological Survey National Geologic Mapping Program, Cooperative Agreement No. [illegible]

Maine Geological Survey

Open-File No. 98-1

1998

EXPLANATION OF SYMBOLS

EXPLANATION OF LINES

EXPLANATION OF PATTERNS

Gorham Quadrangle, Maine

Craig D. Neil

Geoffrey W. Smith

Robert A. Johnston

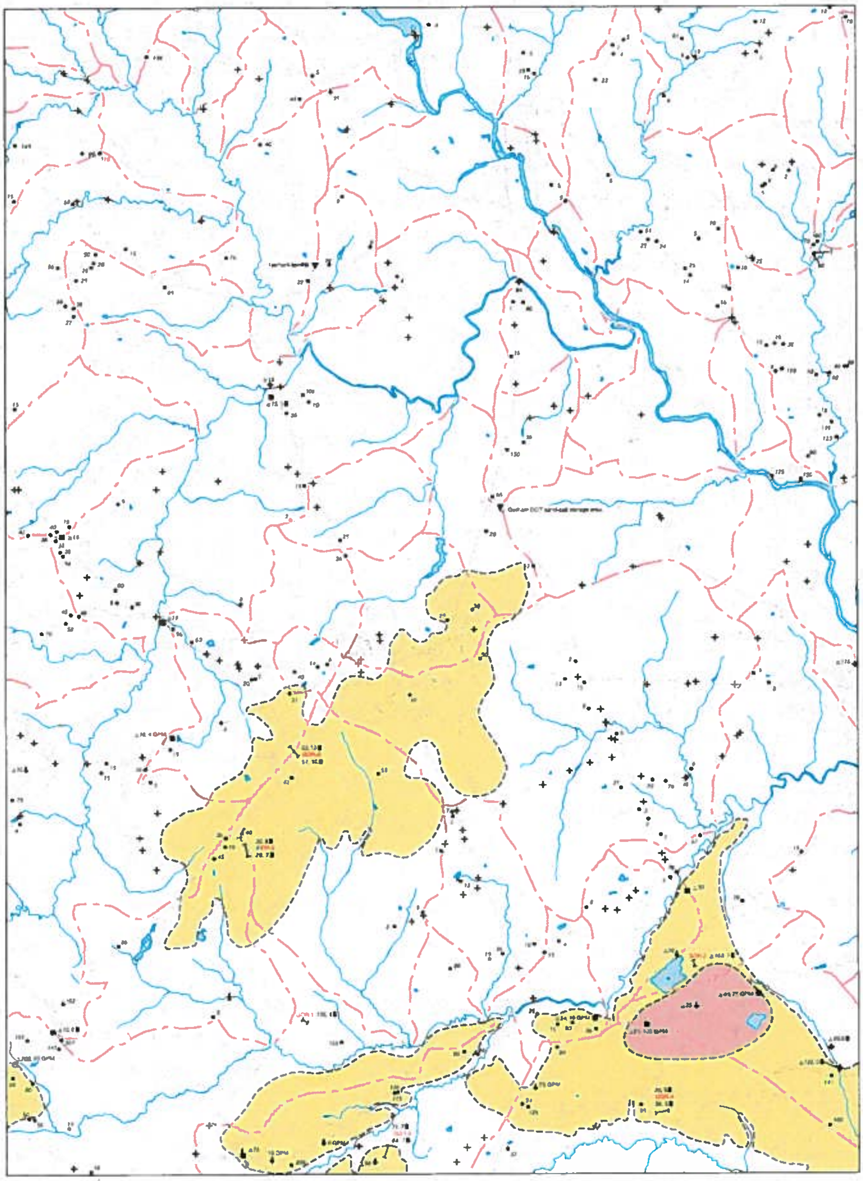
Robert G. Marvinney
State Geologist

Robert D. Tucker
Bennett J. Wilson, Jr.

Maine Geological Survey

Open-File No. 98-143
1998

Significant Sand and Gravel Aquifers



SCALE 1:24,000

CONTOUR INTERVAL 20 FEET

TRUE NORTH

Quadrangle Location

SIGNIFICANT SAND AND GRAVEL AQUIFERS
(yields greater than 10 gallons per minute)

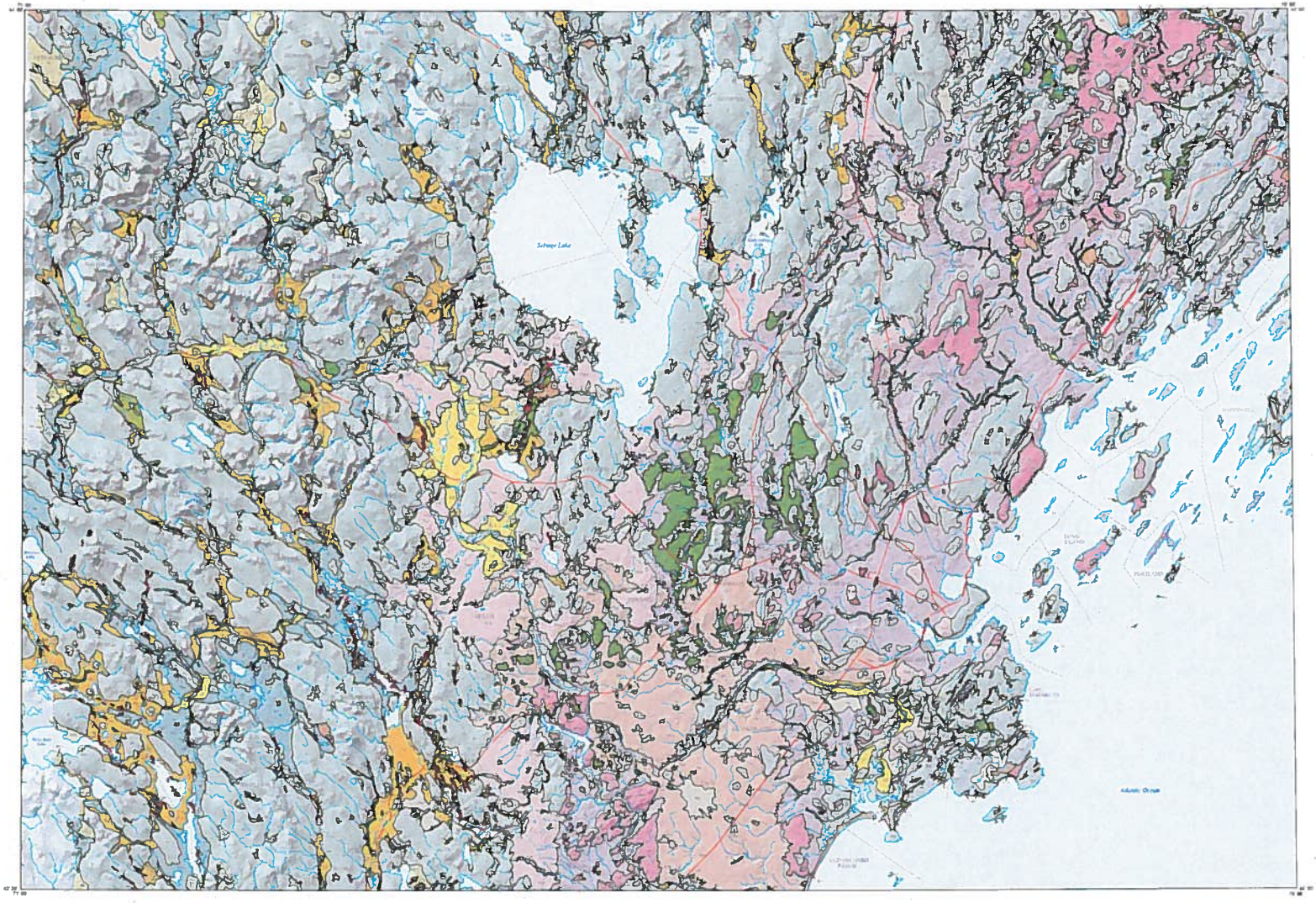
SURFICIAL DEPOSITS WITH LESS FAVORABLE AQUIFER CHARACTERISTICS
(yields less than 10 gallons per minute)

SEISMIC-LINE INFORMATION

GEOLOGIC AND WELL INFORMATION

OTHER SOURCES OF INFORMATION

Surficial Geology of the Portland 1:100,000 Quadrangle, Maine



Portland Quadrangle, Maine

Surficial geology compiled by
Susan S. Tolman

Geologic editing by
Kenneth B. Thompson
Thomas R. Nedeff

Robert G. Marvinney
State Geologist

Original cartography by
Susan S. Tolman
Marc C. Loiselle

Cartographic design and editing by
Robert D. Tucker

Funding for the preparation of this map was provided in part by the U.S. Geological Survey STATEMAP Program, Cooperative Agreement No. 1434-HQ-97-AG-01968

Maine Geological Survey
Address: 22 State House Station, Augusta, Maine 04333
Telephone: 207-287-3601 E-mail: mgs@maine.gov
Home page: http://www.maine.gov/doc/nrcm/mgs/index.htm

Open-File No. 06-1
2006

EXPLANATION OF UNITS

Map units are labelled and grouped here by age

H — Holocene (postglacial) deposits, formed mostly during the last 10,000 years
Q — Quaternary (age only) deposits (Pleistocene to Holocene)
P — Pleistocene, formed during some entire glacial episode between about 2.6 and 10,000 years ago

af — **Artificial fill**: Earth, or industrial, rock fragments and other man-made materials transported and dumped to build up highways, airportsites, etc.

Hw — **Wetland**: Sand, silt, gravel, and organic material deposited in flood plains of modern streams

Hp — **Peatlands**: Peat, muck, and/or fine-grained inorganic sediments in poorly drained areas. Includes both freshwater wetlands and coastal salt marshes

Hcd — **Coastal barriers and sand dunes**: Modern storm-washed sand ponds too narrow to discriminate at the scale of this map and thus are grouped with adjacent older deposits

Hb — **Beach deposits** on modern lake shores. Composed of sand and gravel of unknown proportions

Hls — **Landslide deposits**: Poorly sorted sediments on steep slopes, landslides resulting from failure of a soil slope in the Maine-New Hampshire border

Ha — **Lahar deposits**: Sand deposited by wind action in late-glacial or postglacial time. Can occur as dunes or as irregular blanket deposits

Hsw — **Stream terraces**: Sand, gravel, and silt deposited on former flood plains, as terraces along the modern lake rills

Hla — **Glacial lake sediment deposits**: Sediments deposited in temporary ice-dammed or moraine-dammed glacial lakes. Includes deltas consisting of sand and gravel and fine-textured silt and clay. Natural glacial lakes are grouped below, according to the valley or valley system in which they formed, starting with the most southerly subject lake. Some of these glacial lakes had a dam some miles to show modern counterparts (e.g. Panther Pond)

Little Androscoggin River basin – Mountain Lake valley

Hla — Glacial Lake Androscoggin (north-south part of valley; dam was between Little Androscoggin and Androscoggin Rivers)

Hla — Glacial Lake Newfield

Hla — Glacial Lake Mountain (northwest part of valley; dam was between Little Androscoggin and Mountain Brook tributary)

Androscoggin River basin

Hla — Glacial Lake Cornish

Hla — Glacial Lake Effingham

Hla — Glacial Lake Wedgewood

Hla — Glacial Lake Lake Wassataquoik

Hla — Glacial Lake Chesuncook

Saco River basin

Hla — Glacial Lake Pigeywock

Hla — Glacial Lake Waterman

Hla — Glacial Lake Hancock

Hla — Glacial Lake Tarratine

Hla — Glacial Lake Brownfield

Hla — Glacial Lake Iona Farms

Crooked River valley – Sebago Lake basin

Hla — Glacial Lake Sebago

Crooked River valley – Panther Pond valley

Hla — Glacial Lake Crescent

Hla — Glacial Lake Panther

Little Sebago Lake basin

Hla — Glacial Lake Sebago Lake

Pmb — **Marine nearshore deposits**: Sand, gravel, and silt deposited on top glacial or shallow marine waters during late-glacial regressions of the sea. Includes large sand plains that commonly overlie marine sand of the Presumpscot Formation. Formed by a variety of fluvial and nearshore processes

Pmb — **Marine shoreline deposits**: Beach and dune deposits ranging from sand to gravel. Formed during the regressive phase of late-glacial marine submergence

Pmd — **Marine nearshore deposits**: Sand, gravel, and silt deposited by wave and current action in shallow and shallow marine environments. Formed mostly during the regressive phase of late-glacial marine submergence. May be very flat or gently undulating topography

Pp — **Presumpscot Formation**: Silt, clay, and sand deposited on the sea floor

Pmf — **Subaqueous fans**: Sand and gravel deposited on the sea floor at the glacial ice margin

Pmd — **Glaciomarine drift**: Fine-grained sand and gravel deposited in the contemporary late-glacial sea floor and formed as ice left the glacial margin

Pm — **Marine deposits, undifferentiated**: Sand and gravel of uncertain origin but thought to have been deposited in the sea

Pg — **Glacial stream deposits**: Sand and gravel deposited by glacial meltwater streams at or near the ice margin. May contain lake or marine sediments in depressions, as well as marine glaciofluvial deposits

Pgd — **Delta**: Bodies of sand and gravel deposited by meltwater streams in subaqueous ponds. Lake plain or lake area. Delta deposits formed where meltwater streams entered the glacial lake

Pkm — **Moraines**: Ridges of till with hummocky topography. Usually occur in valley bottoms. Contains many boulders, and lenses of sand, gravel, and silt are locally abundant. Formed by melting and disintegration of debris in the marginal zone of the last glacial ice sheet

Pkm — **Ridged moraine**: Chaotic or broken hill ridges deposited on valley floors transverse parallel to glacial flow. May have formed as subglacial esker remnants

Pkm — **End moraine complexes**: Chaotic or broken ridged end moraines deposited at the terminus (foot and side) of the last glacial ice sheet. More extensive areas generally associated with valley ice margins. Composed of till and/or sand and gravel, locally including subaqueous fan deposits

Pt — **Till**: Loose to very compact poorly sorted deposits of mixed sand and gravel of sand, silt and gravel-size rock debris deposited directly from glacial ice. Locally overlains layers of a thin fluvial sediments

Pbd — **Thin drift**: Areas with discontinuous bedrock outcrops and generally less than 10 ft of surficial sediments. May also include areas of the central low-land where rock surfaces were washed in the sea during late glacial marine regression. Till commonly remains on slopes and bottoms while marine sand and sands in gravel-silt, nearshore deposits has transgressed across areas

EXPLANATION OF SYMBOLS

Geologic contact
Road
Town boundary
County boundary
State boundary
Township corner

RELATED MAPS

Tolman, S. S. compiler, 2006, Displacement features in the Portland 1:100,000 quadrangle, Maine: Maine Geological Survey, Open-File Map No. 7

Tolman, S. S. compiler, 2006, Lineaments shown on maps in the Portland 1:100,000 quadrangle, Maine: Maine Geological Survey, Open-File Map No. 8

PORTAL TO SOURCES OF GEOLOGIC MAP DATA

A 2006 interactive geologic quadrangle maps, sections, and Maine Geological Survey Open-File numbers in cases where the original map data have been supplemented with more recent data.

Kennebunkport 1:100,000	Milton 1:100,000	Lewiston-Auburn 1:100,000	Norway 1:100,000	Poland 1:100,000	Gray 1:100,000	Sebago Lake 1:100,000	Portland 1:100,000
Kennebunk 7.5' quadrangle	Rochester 7.5' quadrangle	Lewiston 7.5' quadrangle	Oxford 7.5' quadrangle	Poland 7.5' quadrangle	Gray 7.5' quadrangle	Frye Island 7.5' quadrangle	Portland 7.5' quadrangle
Wells 7.5' quadrangle	Milton 7.5' quadrangle	Mechanic Falls 7.5' quadrangle	Norway 7.5' quadrangle	Casco 7.5' quadrangle	Naples 7.5' quadrangle	Raymond 7.5' quadrangle	Westbrook 7.5' quadrangle
Ogunquit 7.5' quadrangle	Lebanon 7.5' quadrangle	Turner 7.5' quadrangle	Buckfield 7.5' quadrangle	Sebago 7.5' quadrangle	Sebago Lake 7.5' quadrangle	Standish 7.5' quadrangle	Saco 7.5' quadrangle
Cape Neddick 7.5' quadrangle	Dover 7.5' quadrangle	Leeds 7.5' quadrangle	Hartford 7.5' quadrangle	Bridgton 7.5' quadrangle	Harrison 7.5' quadrangle	Hollis 7.5' quadrangle	Biddeford 7.5' quadrangle

U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map

May 7, 2012

Wetlands

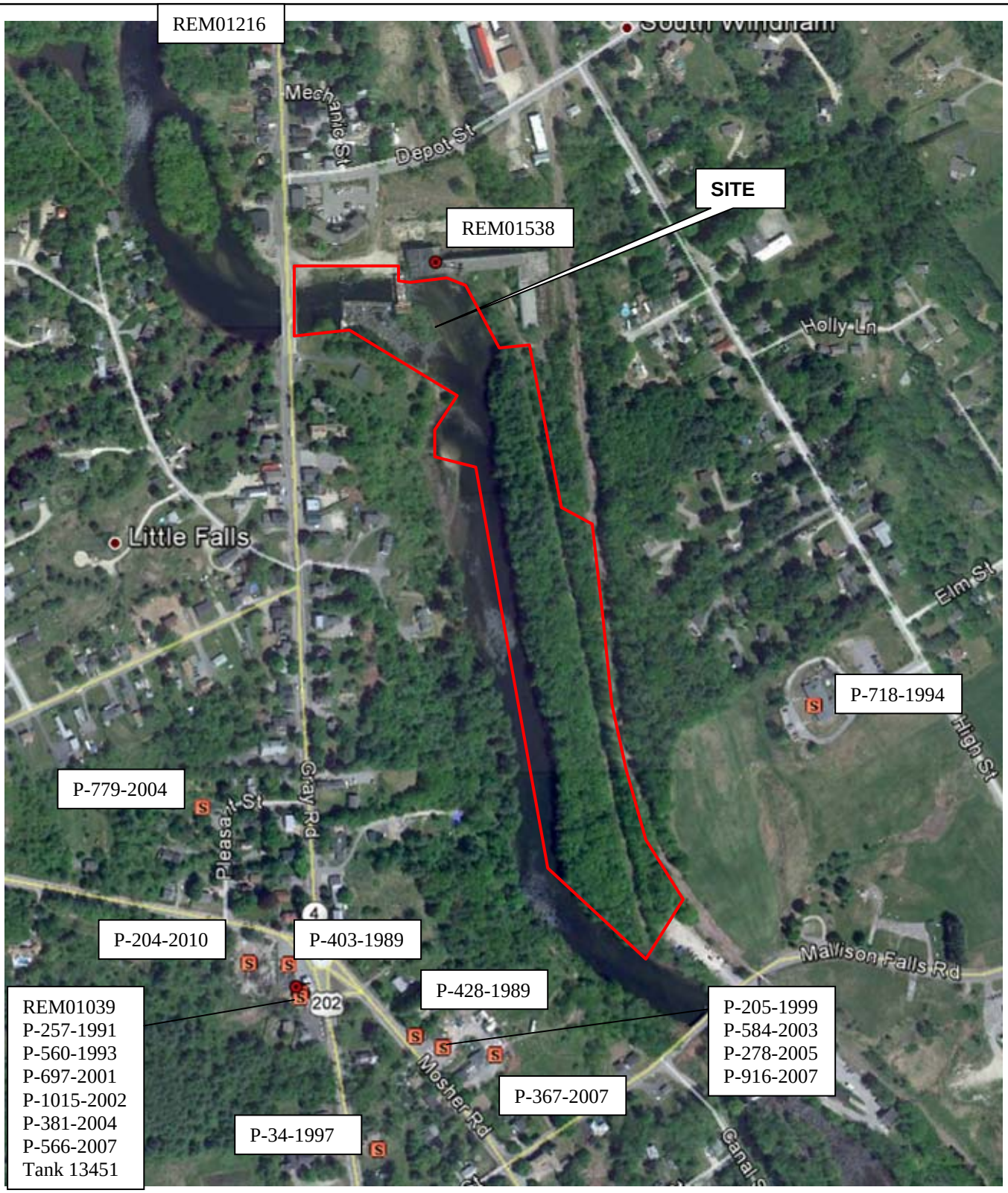
- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



Notes:
S – Hazardous Oil Spill Systems (HOSS) Sites
UST – Registered Petroleum Tanks Listing Location
Red Circle – Remediation Sites (Institutional Controls) Site

N

TRC
400 Southborough Drive
South Portland, ME 04106
Phone: (207) 879-1930
Fax: (207) 879-9293

MEDEP Online Searchable Databases Plot
Windham & Gorham, ME

Project Number: 191981

Site	Site Name	Address	Program	IC?	Status	Latitude	Longitude
REM01983	GARDINER WATERFRONT	23 STEAMBOAT STREET	BROWNFIELDS	UNKNOW	INVESTIGATION IN PROGRESS		
REM00530	MAINE DRILLING & BLASTING CO	ROUTE 201, BRUNSWICK A	UNCONTROLLED SITES	UNKNOW	NO FURTHER ACTION	44.208495	-69.783593
REM01489	TOPSHAM RECREATION ANNEX		FEDERAL FACILITIES	UNKNOW	UNKNOWN		
REM01472	USDAN PROPERTY	829 WATER ST	BROWNFIELDS	TRUE	NO FURTHER ACTION	44.223323	-69.784973
REM01472	USDAN PROPERTY	829 WATER ST	VRAP	TRUE	NO FURTHER ACTION	44.223323	-69.784973
GARLAND							
REM00134	GARLAND MUNICIPAL LANDFILL	OLIVER HILL ROAD	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	45.055063	-69.161709
REM00531	GARLAND POND	ROUTE 94	UNCONTROLLED SITES	FALSE	REFERRED TO OTHER PROGRAMS		
GEORGETOWN							
REM01571	FETTERS RESIDENCE	145 BOWMANS LANDING	VRAP	FALSE	NO FURTHER ACTION	43.832022	-69.764134
REM00135	GEORGETOWN MUNICIPAL LANDFILL	BAY POINT ROAD	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	43.797816	-69.755304
REM00532	REID STATE PARK	375 SEGUINLAND ROAD	FEDERAL FACILITIES	FALSE	NO FURTHER ACTION	43.779126	-69.728262
REM00532	REID STATE PARK	375 SEGUINLAND ROAD	UNCONTROLLED SITES	FALSE	NO FURTHER ACTION	43.779126	-69.728262
REM01655	S. PARKER CROSBY PARCEL	WEST GEORGETOWN ROA	VRAP	UNKNOW	REMEDIATION NEEDED	43.800303	-69.779247
REM01305	SUGARLOAF ISLANDS	NORTH & SOUTH SUGARLO	FEDERAL FACILITIES	UNKNOW	NO FURTHER ACTION		
GILEAD							
REM00136	GILEAD MUNICIPAL LANDFILL	RT 2	LANDFILL CLOSURE	UNKNOW	OPERATION AND MAINTENANCE	44.395717	-70.968513
GLENBURN							
REM00137	GLENBURN MUNICIPAL LANDFILL	HUDSON ROAD/ROUTE 221	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	44.94516	-68.846815
REM00533	GLENBURN TOWN OFFICE	LAKEVIEW ROAD	FEDERAL FACILITIES	FALSE	INVESTIGATION NEEDED	44.912975	-68.825168
REM00533	GLENBURN TOWN OFFICE	LAKEVIEW ROAD	UNCONTROLLED SITES	FALSE	INVESTIGATION NEEDED	44.912975	-68.825168
GORHAM							
REM01825	BRACKETT ROAD	178 BRACKETT ROAD	UNCONTROLLED SITES	FALSE	NO FURTHER ACTION		
REM00139	GORHAM DEMO DEBRIS LANDFILL	HUSTON RD	LANDFILL CLOSURE	UNKNOW	OPERATION AND MAINTENANCE	43.72775	-70.45185
REM00138	GORHAM MUNICIPAL LANDFILL	HUSTON RD	LANDFILL CLOSURE	UNKNOW	OPERATION AND MAINTENANCE	43.725856	-70.45286
REM01037	GORHAM SHOPPERS VILLAGE	94 - 108 MAIN STREET	VRAP	TRUE	NO FURTHER ACTION	43.681395	-70.438457
REM01038	H-PIT EXPANSION	30 GAMBO ROAD	VRAP	FALSE	NO FURTHER ACTION	43.745402	-70.445896
REM01039	LITTLE FALLS MINI-MART	688 GRAY ROAD (RTE. 202)	VRAP	FALSE	NO FURTHER ACTION	43.728196	-70.425541
REM01040	MADJERAC PROPERTY	28 HUTCHERSON DRIVE	VRAP	FALSE	NO FURTHER ACTION	43.68337	-70.394922
REM01540	NEW ENGLAND TECH AIR	18 HUTCHERSON DRIVE	VRAP	TRUE	NO FURTHER ACTION	43.68308	-70.393339
REM02075	PLAN-IT RECYCLING	18 GORHAM INDUSTRIAL P	VRAP	UNKNOW	REMEDIATION STAGE - NO ACTION ASSURANCE	43.682807	-70.384054

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Site	Site Name	Address	Program	IC?	Status	Latitude	Longitude
REM01531	SILVEX	ROUTE 22	RCRA	TRUE	POST REMEDIAL ACTIVITY - POST REMEDIAL O&M	43.643153	-70.408816
REM01531	SILVEX	ROUTE 22	UNCONTROLLED SITES	TRUE	POST REMEDIAL ACTIVITY - POST REMEDIAL O&M	43.643153	-70.408816
REM00534	SUPERIOR DESIGN & FABRICATION	BARTLETT RD, INDUSTRIAL	UNCONTROLLED SITES	TRUE	REFERRED TO OTHER PROGRAMS		
REM02073	THOMPSON MACHINE	633 MAIN STREET	VRAP	UNKNOW	PRELIMINARY REVIEW - VRAP APPLICATION	43.687452	-70.393162
REM01486	WYMAN AUTO BODY	201 NEW PORTLAND ROAD	RCRA	TRUE	REMEDIATION STAGE - REMEDIATION STAGE COMPLETE	43.677786	-70.414093
REM01486	WYMAN AUTO BODY	201 NEW PORTLAND ROAD	UNCONTROLLED SITES	TRUE	REMEDIATION STAGE - REMEDIATION STAGE COMPLETE	43.677786	-70.414093
GOULDSBORO							
REM01606	ELSCOTT MANUFACTURING	US ROUTE 1	VRAP	TRUE	NO FURTHER ACTION	44.486053	-68.119553
REM01399	NAVASTROGU		FEDERAL FACILITIES	UNKNOW	UNKNOWN		
REM01284	NSGA COREA OPERATIONS	OFF ROUTE 195	FEDERAL FACILITIES	FALSE	IN REVIEW		
GRAND ISLE							
REM00140	GRAND ISLE MUNICIPAL LANDFILL	DOUCHETTE RD.	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	47.267121	-68.140811
GRAND LAKE STREAM PLT							
REM00537	GRAND LAKE STREAM		UNCONTROLLED SITES	FALSE	NO FURTHER ACTION		
REM00141	GRAND LAKE STREAM PLANTATION MUNICIPAL L	MILFORD STREET	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	45.187762	-67.752485
GRAY							
REM00538	CRAGO COMPANY	LIBBY HILL ROAD	UNCONTROLLED SITES	UNKNOW	NO FURTHER ACTION	43.901769	-70.351111
REM00142	GRAY MUNICIPAL LANDFILL	SEAGULL DR/RT 26	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	43.897386	-70.347846
REM00142	GRAY MUNICIPAL LANDFILL	SEAGULL DR/RT 26	UNCONTROLLED SITES	TRUE	OPERATION AND MAINTENANCE	43.897386	-70.347846
REM00541	GRAY WATER DISTRICT	80 SHAKER ROAD	UNCONTROLLED SITES	FALSE	INVESTIGATION NEEDED	43.895773	-70.339604
REM01950	GREATER MAINE AUTO SALES	53 WEST GRAY ROAD	BROWNFIELDS	UNKNOW	INVESTIGATION IN PROGRESS		
REM01447	LIBERTY OIL	40 LEWISTON ROAD	VRAP	UNKNOW	REFERRED TO OTHER PROGRAMS	43.896422	-70.327652
REM00539	MCKIN SITE	25 MAYALL ROAD	SUPERFUND	TRUE	REMEDIATION UNDERWAY	43.884214	-70.29439
REM00539	MCKIN SITE	25 MAYALL ROAD	UNCONTROLLED SITES	TRUE	REMEDIATION UNDERWAY	43.884214	-70.29439
REM01949	MUNICIPAL OFFICES	4, 6 &8 SHAKER ROAD	BROWNFIELDS	UNKNOW	UNKNOWN		
REM01041	NICHOLS MOTOR	97 SHAKER ROAD	VRAP	FALSE	NO FURTHER ACTION	43.897224	-70.343296
REM00540	SCOTT DINGWELL RESIDENCE	NORTH RAYMOND ROAD	UNCONTROLLED SITES	UNKNOW	NO FURTHER ACTION	43.928162	-70.37037

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Site	Site Name	Address	Program	IC?	Status	Latitude	Longitude
WILTON							
REM01979	PRIMARY SCHOOL	24 SCHOOL STREET	BROWNFIELDS	FALSE	INVESTIGATION STAGE - INVESTIGATION STAGE COMPLETE		
REM00395	WILTON ASH SITE	MUNSON RD	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	44.594507	-70.194782
REM00394	WILTON MUNICIPAL LANDFILL - NEW	MUNSON RD	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	44.593137	-70.194879
REM00394	WILTON MUNICIPAL LANDFILL - NEW	MUNSON RD	UNCONTROLLED SITES	TRUE	OPERATION AND MAINTENANCE	44.593137	-70.194879
REM01967	WILTON MUNICIPAL LANDFILL - OLD	MUNSON ROAD	BROWNFIELDS	TRUE	OPERATION AND MAINTENANCE		
REM01967	WILTON MUNICIPAL LANDFILL - OLD	MUNSON ROAD	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE		
REM01824	WILTON TANNERY	833 US ROUTE 2 EAST	UNCONTROLLED SITES	UNKNOW	INVESTIGATION IN PROGRESS	44.613979	-70.184421
WINDHAM							
REM01468	ABRAHAM ESTATES	ROUTE 115/TANDBERG TRA	VRAP	UNKNOW	REMEDIATION NEEDED	43.846802	-70.391425
REM01897	BUSY BEE LAUNDROMAT AND DRY CLEANER	771 ROOSEVELT TRAIL RO	RCRA	TRUE	INVESTIGATION STAGE - INVESTIGATION NEEDED BUT NOT INITIATED		
REM01997	HERITAGE METALCRAFT	354 GRAY ROAD	BROWNFIELDS	FALSE	NO FURTHER ACTION	43.777205	-70.417151
REM01997	HERITAGE METALCRAFT	354 GRAY ROAD	VRAP	FALSE	NO FURTHER ACTION	43.777205	-70.417151
REM01538	KEDDY MILL	7 DEPOT STREET	VRAP	UNKNOW	REMEDIATION NEEDED	43.734543	-70.42398
REM01216	L.C. ANDREWS LUMBER MILL	MAIN STREET	VRAP	TRUE	NO FURTHER ACTION	43.737128	-70.423962
REM00908	MAINE CORRECTIONAL CENTER	RIVER ROAD	UNCONTROLLED SITES	UNKNOW	REFERRED TO OTHER PROGRAMS	43.725063	-70.413036
REM00906	ROUTE 115	CORNER RT. 115 & BRAND	UNCONTROLLED SITES	FALSE	REFERRED TO OTHER PROGRAMS		
REM00396	WINDHAM MUNICIPAL LANDFILL	RTE 302	LANDFILL CLOSURE	TRUE	OPERATION AND MAINTENANCE	43.858769	-70.455008
REM01621	WINDHAM RETAIL	INTERSECTION OF RT 115	VRAP	TRUE	NO FURTHER ACTION	43.833853	-70.437659
REM00909	WINDHAM WELDING	ROUTE 302	UNCONTROLLED SITES	FALSE	NO FURTHER ACTION		
WINDSOR							
REM00397	WINDSOR MUNICIPAL LANDFILL	RTE 32	LANDFILL CLOSURE	UNKNOW	OPERATION AND MAINTENANCE	44.284075	-69.58989
WINN							
REM00398	WINN MUNICIPAL LANDFILL	RTE 168	LANDFILL CLOSURE	UNKNOW	OPERATION AND MAINTENANCE	45.4586	-68.352017
WINSLOW							
REM01876	FORMER IRVING OIL SERVICE STATION	42 BAY STREET	VRAP	UNKNOW	IN REVIEW	44.542662	-69.626299
REM02058	KENNEBEC RIVER DEVELOPMENT PARK	14 BENTON AVE	RCRA	TRUE	-		
REM00910	SCOTT PAPER COMPANY	MILL ROAD	UNCONTROLLED SITES	UNKNOW	REFERRED TO OTHER PROGRAMS	44.555144	-69.623977

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Maine DEP
Registered Underground Oil Storage Tanks

Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
14753	5 - 1	LUCKYS LANDING SEAPLANE BASE	35 LUCKY LANDING RD	GLENBURN	Commercial	10/1/1988	2020	Fuel for piston powered aircraft.	Active	10/1/1988
8822	1 - 1	MUNICIPAL OFFICE BUILDING		GLENBURN	Public Facility	10/1/1969	1000		Removed	6/1/1987
8822	2 - 1	MUNICIPAL OFFICE BUILDING		GLENBURN	Public Facility	10/1/1969	10000		Removed	8/1/1989
21089	1 - 1	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	8000		Active	3/9/2006
21089	1 - 2	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	4000		Active	3/9/2006
21089	2 - 1	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	500		Active	3/9/2006
20788	1 - 1	ALLAN, DIANA	127 SOUTH ST	GORHAM	Single Residence	10/1/1969	1000		Removed	6/13/2003
21002	1 - 1	ALLEN, MARION	RT 202	GORHAM	Single Residence	10/1/1969	1000		Removed	8/31/2005
21002	2 - 1	ALLEN, MARION	RT 202	GORHAM	Single Residence	10/1/1969	1000		Removed	8/31/2005
21002	3 - 1	ALLEN, MARION	RT 202	GORHAM	Single Residence	10/1/1969	1000		Removed	8/31/2005
16575	1 - 1	ANDERSON, DONNA & CARLTON	204 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1990
11431	1 - 1	ASTWOOD, STEVEN R	112 HEMLOCK DR	GORHAM	Single Residence	6/1/1974	220		Removed	8/1/1989
1358	1 - 1	AUTOWISE AUTO PARTS	102-104 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	10/1/1994
8922	1 - 1	BACHMANN, DEBORAH	113 HEMLOCK DR	GORHAM	Single Residence	1/1/1974	250		Removed	4/30/1990
3802	1 - 1	BACON, JEAN & KERMIT	242 BIRCH DR	GORHAM	Single Residence	10/1/1969	275		Removed	5/1/1990
6242	1 - 1	BAILEY, IRENE L	244 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	8/1/1989
11361	1 - 1	BANKER, MICHAEL & PAMELA	275 OAK CIRCLE	GORHAM	Single Residence	7/1/1971	275		Removed	9/1/1989
2972	1 - 1	BANKS, HARLAND W	13 NEW PORTLAND RD	GORHAM	Multiple Residence	7/1/1973	550		Removed	11/1/1991
11244	1 - 1	BARBATOS, DOUGLAS & NICOLE	144 HEMLOCK DR	GORHAM	Single Residence	4/1/1974	220		Removed	9/1/1994
16676	1 - 1	BARNETT, MAURICE & MICHELE	183 MAPLE DR	GORHAM	Single Residence	1/1/1977	200		Removed	9/1/1994
16282	1 - 1	BARRETT, NORMAN	167 EVERGREEN DR	GORHAM	Single Residence	1/1/1973	275		Removed	10/1/1989
12999	1 - 1	BARROWS GREENHOUSES	312 MAIN ST	GORHAM	Commercial	10/1/1969	6000		Removed	10/1/1995

Maine DEP
Registered Underground Oil Storage Tanks

Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
20373	1 - 1	BAXTER LIBRARY	71 SOUTH ST	GORHAM	Town "&" School	10/1/1969	500		Removed	12/7/2000
5369	1 - 1	BEAN, FRANK	36 EVERGREEN DR	GORHAM	Single Residence	6/1/1978	275		Removed	7/1/1989
16550	1 - 1	BECHARD, ROBYN L	170 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/10/1991
5729	1 - 1	BELL, JO ANN M	48 TAMARACK	GORHAM	Single Residence	8/1/1971	220		Removed	11/1/1989
14699	1 - 1	BEN FRANKLIN	102-104 MAIN ST	GORHAM	Commercial	1/1/1978	1000		Removed	10/1/1994
8923	1 - 1	BENEVENTO, HARRIET	57 EVERGREEN DR	GORHAM	Single Residence	4/1/1974	275		Removed	12/1/1989
2600	1 - 1	BERRILL, CYNTHIA M	213 MAPLE DR	GORHAM	Single Residence	1/1/1974	275		Removed	12/1/1990
2336	1 - 1	BERRY, RALPH & SHEILA	25 GREEN ST	GORHAM	Multiple Residence	10/1/1969	500		Removed	10/1/1989
11236	1 - 1	BEZANSON, FRANCES H	HEMLOCK DR LOT 130	GORHAM	Single Residence	8/1/1971	250		Removed	7/1/1989
9424	1 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	1/1/1972	8000		Removed	7/1/1988
9424	2 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	1/1/1972	8000		Removed	7/1/1988
9424	3 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	1/1/1972	8000		Removed	7/1/1988
9424	4 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	1/1/1972	550		Removed	7/10/1995
9424	5 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	6 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	7 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	8 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	9/1/1993	1000		Active	9/22/1993
8572	1 - 1	BIGNEY, ALICE C	147 HEMLOCK DR	GORHAM	Single Residence	1/1/1971	220		Removed	7/1/1989
1569	1 - 1	BINEAU, GILBERT A	CRESSEY RD	GORHAM	Single Residence	7/1/1964	1000		Removed	8/1/1991
7369	1 - 1	BOBB, LAURA C	7 WILLOW CIRCLE	GORHAM	Single Residence	12/1/1978	275		Removed	11/1/1990
16770	1 - 1	BODLOVICK, HARRY N	200 MAPLE DR	GORHAM	Unknown Address	10/1/1969	275		Removed	2/10/1997
11515	1 - 1	BOLDUC, ALEXANDRIA	149 HEMLOCK DR	GORHAM	Single Residence	9/1/1975	250		Removed	8/1/1989
11298	1 - 1	BOONE, RICHARD M	54 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1994

Maine DEP
Registered Underground Oil Storage Tanks

Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
11360	1 - 1	BOWMAN, CHARLES & RITA	295 CHESTNUT CIRCLE	GORHAM	Single Residence	9/1/1977	275		Removed	9/1/1995
16580	1 - 1	BOYINGTON, ROSCOE	44 TAMAARACK CIRCLE	GORHAM	Single Residence	1/1/1971	275		Removed	12/1/1989
16809	1 - 1	BOYMAN, EVELYN L	286 ASH DR	GORHAM	Single Residence	6/1/1978	275		Removed	10/1/1990
18194	1 - 1	BRACKETT, SYLVIA	117 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	5/1/1996
2337	1 - 1	BRINKMAN, CARL	50 FLAGGY MEADOW RD	GORHAM	Single Residence	1/1/1980	1000		Removed	7/25/1996
11104	1 - 1	BROWN, TODD	10 WILLOW CIRCLE	GORHAM	Single Residence	6/1/1971	220		Removed	5/1/1990
16589	1 - 1	BURBANK, BRYAN & WENDY	177 MAPLE DR	GORHAM	Single Residence	12/1/1972	275		Removed	4/1/1990
16848	1 - 1	BURGESS, HERMAN & MYRTLE	268 MAPLE DR	GORHAM	Single Residence	4/1/1975	275		Removed	6/1/1990
11564	1 - 1	BURNELLE, DAVID & ANNE	235 BIRCH DR	GORHAM	Single Residence	10/1/1969	220		Removed	7/1/1993
16131	1 - 1	CAIRNS, RICHARD E	240 BIRCH DR	GORHAM	Single Residence	1/1/1974	275		Removed	8/1/1990
11240	1 - 1	CAO, DAVID	95 CEDAR CIRCLE	GORHAM	Single Residence	7/1/1973	275		Removed	6/1/1990
13276	1 - 1	CARLOW, JANE E	220 MAPLE DR	GORHAM	Single Residence	9/1/1972	275		Removed	7/1/1989
6793	1 - 1	CARSWELL, SHIRLEY B	271 MAPLE DR	GORHAM	Single Residence	6/1/1975	250		Removed	11/1/1989
10667	1 - 1	CARTER, ARLINE	69 EVERGREEN DR	GORHAM	Single Residence	1/1/1971	220		Removed	8/1/1989
18314	1 - 1	CERNY, ERNST F	108 HEMLOCK DR	GORHAM	Single Residence	9/1/1971	220		Removed	6/8/1994
16307	1 - 1	CHAMBERS, KIMBERLY	179 MAPLE DR	GORHAM	Single Residence	5/1/1977	275		Removed	8/28/1989
16206	1 - 1	CHAPMAN, EVELYN L	280 OAK CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	10/1/1989
17242	1 - 1	CHAREST, PHILIP D	246 MAIN ST	GORHAM	Single Residence	10/1/1969	1000		Removed	8/1/1990
277	1 - 1	CHARLES SHAW SCHOOL	270 MAIN ST	GORHAM	Town "&" School	9/1/1978	10000		Removed	8/24/1998
277	2 - 1	CHARLES SHAW SCHOOL	270 MAIN ST	GORHAM	Town "&" School	9/1/1978	2000		Removed	1/1/1989
277	3 - 1	CHARLES SHAW SCHOOL	270 MAIN ST	GORHAM	Town "&" School	9/1/1953	2000		Removed	1/1/1989
277	4 - 1	CHARLES SHAW SCHOOL	270 MAIN ST	GORHAM	Town "&" School	9/1/1953	8000		Removed	1/1/1989

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277	5 - 1	CHARLES SHAW SCHOOL	270 MAIN ST	GORHAM	Town "&" School	8/28/1998	10000		Removed	10/1/2005
17239	1 - 1	CHARLTON, ROBERT L	22 WILLOW CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	6/1/1991
4088	1 - 1	CHEECHAKO FARMS	RT 22	GORHAM	Single Residence	8/1/1977	3000		Removed	11/1/1994
4088	2 - 1	CHEECHAKO FARMS	RT 22	GORHAM	Single Residence	12/1/1973	1000		Removed	12/1/1993
16392	1 - 1	CHIASSON, LAURENT J	267 MAPLE DR	GORHAM	Single Residence	1/1/1974	275		Removed	10/26/1989
9755	1 - 1	CHISHOLM, KATHERINE L	230 MAPLE DR	GORHAM	Single Residence	6/1/1972	250		Removed	2/10/1997
17111	1 - 1	CLARK, GORDON C	269 MAPLE DR	GORHAM	Single Residence	10/1/1974	275		Removed	10/1/1990
7677	1 - 1	CLARKE, ALFRED E	11 WILLOW CIRCLE	GORHAM	Single Residence	6/1/1971	220		Removed	8/1/1989
7978	1 - 1	CLENN, KATHLEEN A	4 WILLOW CIRCLE	GORHAM	Single Residence	4/1/1983	275		Removed	12/1/1990
4885	1 - 1	CLOUTIER, MARK	103 CEDAR CIRCLE	GORHAM	Single Residence	1/1/1979	275		Removed	6/1/1995
17043	1 - 1	COLE, MARIA	50 TAMARACK CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	8/1/1990
16718	1 - 1	COLEMAN, MARJORIE L	226 MAPLE DR	GORHAM	Single Residence	1/1/1971	275		Removed	4/1/1990
11093	1 - 1	COMBINED FILE WITH FILE 16032	376 MAIN ST	GORHAM	Combined File	6/1/1978	500		combined file	10/23/2002
11237	1 - 1	CONLEY, ALINE DIXON	182 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	11/1/1990
16474	1 - 1	CONNICK, CHRISTINA	120 HEMLOCK DR	GORHAM	Single Residence	10/1/1971	275		Removed	11/1/1989
16871	1 - 1	COUGHLIN, N & HUBBARD, N	238 BIRCH DR	GORHAM	Single Residence	1/1/1976	275		Removed	12/1/1991
17812	1 - 1	COWSERT, WILLIAM R	126 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	6/1/1995
6164	1 - 1	CREHAN, JOSEPH P JR	46 TAMARACK CIRCLE	GORHAM	Single Residence	1/1/1977	275		Removed	7/2/1992
16850	1 - 1	CROCKETT, BARBARA R	191 MAPLE DR	GORHAM	Single Residence	1/1/1973	275		Removed	8/1/1990
4985	1 - 1	CROUANAS, JEAN P	115 HEMLOCK DR	GORHAM	Single Residence	9/1/1974	250		Removed	8/1/1989
11335	1 - 1	CRUZ, EVELYN M	210 MAPLE DR	GORHAM	Single Residence	10/1/1973	275		Removed	8/1/1989
11384	1 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	8/14/1984	8000		Removed	5/24/2005

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
11384	2 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	1/1/1972	10000		Removed	12/19/1996
11384	3 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	8/14/1984	8000		Removed	5/24/2005
11384	4 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	10/1/1969	3000		Removed	12/19/1996
11384	5 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	10/1/1969	550		Removed	12/4/1996
11384	6 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	10/1/1969	550		Removed	12/4/1996
11384	7 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	1/10/1997	8000		Active	12/17/1996
11384	8 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	2/22/2005	8000		Active	7/6/2005
11384	9 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	2/22/2005	8000		Active	7/6/2005
11384	10 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	2/22/2005	8000		Never Installed	7/5/2005
16572	1 - 1	CURRAN, PAUL M	254 EVERGREEN DR	GORHAM	Single Residence	1/1/1975	275		Removed	6/1/1990
7143	1 - 1	CURRIER, FRED D	246 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	7/1/1989
21463	1 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	6000		planned for installation	9/23/2008
21463	2 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	275		planned for installation	9/23/2008
21463	3 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	275		planned for installation	9/23/2008
6949	1 - 1	CYR, FRANCIS & ROLANDE	56 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	7/1/1990
5835	1 - 1	DARLING, HELEN	174 MAPLE DR	GORHAM	Single Residence	11/1/1979	275		Removed	9/1/1996
3938	1 - 1	DAVIS, BARBARA M	272 MAPLE DR	GORHAM	Single Residence	9/1/1978	275		Removed	1/1/1991
15893	1 - 1	DAVIS, EARLE & MARGUERITE	47 TAMARACK CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	8/1/1989
9974	1 - 1	DEERING, NATHAN N	171 MAPLE DR	GORHAM	Single Residence	1/1/1971	275		Removed	4/1/1990
11061	1 - 1	DELANEY, FREDERIK G MD	WOOD RD	GORHAM	Single Residence	10/1/1969	500		Removed	12/1/1990
10668	1 - 1	DENNETT, FRANCES A	107 HEMLOCK DR	GORHAM	Single Residence	6/1/1971	220		Removed	8/1/1989
16583	1 - 1	DENNISON, SONYA	289 CHESTNUT CIRCLE	GORHAM	Multiple Residence	1/1/1971	250		Removed	4/1/1990

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16570	1 - 1	DEPALMER, ANGELA	251 ASH DR	GORHAM	Single Residence	1/1/1980	275		Removed	4/1/1990
20730	1 - 1	DIBENZO & SONS CO	56 ROCHESTER ST	GORHAM	Single Residence	10/1/1969	3000		Removed	12/11/2002
16110	1 - 1	DIBIASE, C SAM	27 EVERGREEN DR	GORHAM	Single Residence	6/1/1971	275		Removed	9/1/1989
16109	1 - 1	DIBIASE, C SAM	24 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
16111	1 - 1	DIBIASE, C SAM	157 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
5536	1 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	8/1/1968	10000		Removed	8/1/1986
5536	2 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	8/1/1968	26000		Removed	8/1/1986
5536	3 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	8/1/1968	10000		Removed	8/1/1986
5536	4 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	7/1/1975	500		Removed	8/1/1986
5536	5 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	8/1/1986	20000		Removed	3/13/2002
5536	6 - 1	DIXON BROTHERS	230 MAIN ST	GORHAM	Retail Oil	8/1/1986	10000		Removed	3/13/2002
7714	1 - 1	DODGE OIL CO INC	13 NEW PORTLAND RD	GORHAM	Retail Oil	9/1/1973	10000		Removed	11/1/1991
2973	1 - 1	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	7/1/1978	10000		Removed	10/1/1991
2973	2 - 1	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	7/1/1978	2000		Removed	10/1/1991
7714	2 - 1	DODGE OIL CO INC	13 NEW PORTLAND RD	GORHAM	Retail Oil	9/1/1973	5000		Removed	11/1/1991
7714	3 - 1	DODGE OIL CO INC	13 NEW PORTLAND RD	GORHAM	Retail Oil	9/1/1973	5000		Removed	11/1/1991
2973	3 - 1	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	7/1/1978	550		Removed	10/1/1991
2973	4 - 1	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	11/8/1991	6000		Active	11/8/1991
7714	4 - 1	DODGE OIL CO INC	13 NEW PORTLAND RD	GORHAM	Retail Oil	9/1/1973	5000		Removed	11/1/1991
2973	4 - 2	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	11/8/1991	6000		Active	11/8/1991
5537	1 - 1	DOHERTY, ROBERT C	214 MAPLE DR	GORHAM	Single Residence	7/1/1975	275		Removed	10/1/1988
11242	1 - 1	DONOGHUE, PATRICIA	73 FOREST CIRCLE	GORHAM	Single Residence	6/1/1978	275		Removed	9/1/1989

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
15940	1 - 1	DONOVAN, JOHN E	9 WILLOW CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
11370	1 - 1	DORAZIO, VINCENT & GRACE	198 MAPLE AVE	GORHAM	Single Residence	8/1/1978	275		Removed	12/30/1991
7806	1 - 1	DOYLE, MISTY & STEVENS	160 EVERGREEN	GORHAM	Single Residence	1/1/1975	275		Removed	2/10/1997
7620	1 - 1	DUONG, TINH V	291 CHESTNUT CIRCLE	GORHAM	Single Residence	10/1/1973	275		Removed	8/1/1989
11519	1 - 1	EDWARDS, KENNETH & PATRICIA	63 EVERGREEN DR	GORHAM	Public Facility	6/1/1984	275		Removed	2/10/1997
2356	1 - 1	EMERY, CHARLENE E	41 TAMARACK CIRCLE	GORHAM	Single Residence	1/1/1972	275		Removed	5/1/1990
7637	1 - 1	EVERLY, JOHN F	39 TAMARACK CIRCLE	GORHAM	Single Residence	2/1/1980	275		Removed	4/1/1991
9770	1 - 1	FASULO, KIMBERLY	258 EVERGREEN DR	GORHAM	Single Residence	7/1/1975	275		Removed	7/1/1995
15954	1 - 1	FEYLER, WALLACE A ESTATE OF	131 HEMLOCK DR	GORHAM	Single Residence	5/1/1971	220		Removed	9/1/1989
4636	1 - 1	FITZ, DORIS I	9 MORRILL AVE	GORHAM	Single Residence	5/1/1950	500		Removed	4/1/1990
4755	1 - 1	FOLEY, DOROTHY	651 EVERGREEN DR	GORHAM	Single Residence	1/1/1971	220		Removed	9/1/1989
4268	1 - 1	FOLTZ, HARRY	190 MAPLE DR	GORHAM	Single Residence	2/1/1982	275		Removed	4/1/1991
20437	1 - 1	FORE RIVER MARINE	637 MAIN ST	GORHAM	Retail Oil	10/1/1969	4000		Removed	4/13/2001
20437	2 - 1	FORE RIVER MARINE	637 MAIN ST	GORHAM	Retail Oil	10/1/1969	2000		Removed	4/13/2001
11523	1 - 1	FOURTEEN MAIN RESTAURANT	45 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	10/1/1994
17508	1 - 1	FRANCOEUR, MAURICE	192 MAPLE DR	GORHAM	Combined File	1/1/1974	275		combined file	2/10/1997
16969	1 - 1	FRANCOEUR, MAURICE W	192 MAPLE DR	GORHAM	Single Residence	10/1/1983	275		Removed	7/1/1992
16036	1 - 1	FRANK, DONALD & BETTY	140 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	220		Removed	10/3/1993
12753	1 - 1	FRIENDLY VILLAGE	128 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	12/1/1989
3616	1 - 1	FRIENDLY VILLAGE	125 HEMLOCK DR	GORHAM	Single Residence	1/1/1900	275		Removed	6/1/1991
15917	1 - 1	FRIENDLY VILLAGE	142 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	8/1/1989
15915	1 - 1	FRIENDLY VILLAGE	123 BEECH CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	8/1/1989

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15916	1 - 1	FRIENDLY VILLAGE	9 WILLOW CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	8/1/1989
15918	1 - 1	FRIENDLY VILLAGE CLUBHOUSE	300 ASH DR	GORHAM	Public Facility	10/1/1969	1000		Removed	8/1/1989
3807	1 - 1	FRIENDLY VILLAGE TRAILER PARK	26 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	220		Removed	8/1/1989
3054	1 - 1	FS PLUMMER CO INC	25 MECHANIC ST	GORHAM	Industrial	1/1/1978	1000		Removed	8/1/1994
3054	2 - 1	FS PLUMMER CO INC	25 MECHANIC ST	GORHAM	Industrial	10/1/1969	500		Removed	10/7/1998
13895	1 - 1	GABAREE, RON	PHINNEY ST	GORHAM	Single Residence	7/1/1978	1000		Removed	8/30/1986
16032	1 - 1	GAGNON, ROGER	376 MAIN ST	GORHAM	Single Residence	9/1/1989	1000		Removed	7/14/1998
16032	3 - 1	GAGNON, ROGER	376 MAIN ST	GORHAM	Single Residence	10/1/1969	550		Removed	9/1/1990
11430	1 - 1	GAGNON, THERESA	138 JUNIPER CIRCLE	GORHAM	Single Residence	1/1/1974	275		Removed	4/25/1990
9583	1 - 1	GIBBS, LOUISE	87 HEMLOCK DR	GORHAM	Single Residence	5/1/1970	250		Removed	8/1/1989
3282	1 - 1	GILMAN, STEPHEN E	WATERHOUSE RD	GORHAM	Single Residence	9/1/1973	275		Removed	5/1/1991
11553	1 - 1	GODWIN, ROBERT & NORMA	RT 237	GORHAM	Single Residence	10/1/1969	500		Removed	11/1/1993
12660	1 - 1	GORHAM CENTRAL OFFICE	CHURCH ST	GORHAM	Commercial	1/1/1969	1000		Removed	8/26/2010
3321	1 - 1	GORHAM COUNTRY CLUB	MCLELLAN RD	GORHAM	Commercial	5/1/1972	500		Removed	5/1/1990
3321	2 - 1	GORHAM COUNTRY CLUB	MCLELLAN RD	GORHAM	Commercial	6/1/1978	1000		Removed	5/1/1990
3321	3 - 1	GORHAM COUNTRY CLUB	MCLELLAN RD	GORHAM	Commercial	7/1/1980	2000		Removed	5/1/1990
11085	1 - 1	GORHAM HEALTH CENTER INC	30 NEW PORTLAND RD	GORHAM	Public Facility	1/1/1978	500		Removed	10/1/1990
275	1 - 1	GORHAM HIGH SCHOOL	41 MORRILL AVE	GORHAM	Public Facility	1/1/1984	10000		Removed	8/1/1994
275	2 - 1	GORHAM HIGH SCHOOL	41 MORRILL AVE	GORHAM	Public Facility	10/1/1969	6000		Removed	1/1/1984
16328	1 - 1	GORHAM HOUSE	50 NEW PORTLAND RD	GORHAM	Commercial	9/1/1989	10000		Active	9/1/1989
14494	1 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	4000		Removed	12/1/1987
14494	2 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	4000		Removed	12/1/1987

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14494	3 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	4000		Removed	12/1/1987
14494	4 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	4000		Removed	12/1/1987
14494	5 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	11/1/1987	10000		Removed	10/1/2003
14494	6 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	11/1/1987	8000		Removed	10/1/2003
14494	7 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	11/1/1987	8000		Removed	10/1/2003
14494	8 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	1/1/1980	10000		Removed	12/1/1992
14494	9 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	1/1/1980	6000		Removed	12/1/1992
14494	10 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	500		Removed	4/1/1989
14494	11 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	10/1/1969	500		Removed	12/1/1991
14494	12 - 1	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	12/16/2002	15000		Never Installed	12/6/2004
14494	12 - 2	GORHAM MOBIL	115 MAIN ST	GORHAM	Retail Oil	12/16/2002	5000		Never Installed	12/6/2004
9860	1 - 1	GORHAM SAVINGS BANK	80 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	12/1/1991
13065	1 - 1	GORHAM SAVINGS BANK	64 MAIN ST	GORHAM	Commercial	9/1/1985	1000		Removed	11/9/1998
13065	2 - 1	GORHAM SAVINGS BANK	64 MAIN ST	GORHAM	Commercial	11/11/1998	2000		Active	11/11/1998
9860	2 - 1	GORHAM SAVINGS BANK	80 MAIN ST	GORHAM	Commercial	1/1/1992	600		Removed	9/18/2003
15699	1 - 1	GORHAM VILLAGE ELEMENTARY SCH	LINCOLN ST	GORHAM	Town "&" School	6/1/1989	4000		Active	6/1/1989
15699	2 - 1	GORHAM VILLAGE ELEMENTARY SCH	LINCOLN ST	GORHAM	Town "&" School	10/1/1969	4000		Removed	6/1/1989
18880	1 - 1	GORHAM VILLAGE MALL	104-108 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	10/1/1994
18880	2 - 1	GORHAM VILLAGE MALL	104-108 MAIN ST	GORHAM	Commercial	10/1/1969	1000		Removed	10/1/1994
6201	1 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	7/1/1971	6000		Removed	10/1/1994
6201	2 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	7/1/1971	6000		Removed	10/1/1994
6201	3 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	7/1/1971	6000		Removed	10/1/1994
6201	4 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	7/1/1971	1000		Removed	10/1/1994

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6201	5 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	7/1/1971	1000		Removed	10/1/1994
6201	6 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	10/1/1969	3000		Removed	10/1/1994
6201	7 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	10/1/1969	2000		Removed	10/1/1994
6201	8 - 1	GORHAMS SUNOCO	118 MAIN ST	GORHAM	Retail Oil	10/1/1994	15000		Removed	10/1/1997
8806	1 - 1	GOSSOM, ROSEMARY	257 EVERGREEN DR	GORHAM	Single Residence	6/1/1973	275		Removed	9/1/1989
16594	1 - 1	GRANT, GORDON E	201 MAPLE DR	GORHAM	Single Residence	10/1/1969	220		Removed	6/1/1990
10096	1 - 1	GREEN, DONALD	33 EVERGREEN DR	GORHAM	Single Residence	6/1/1971	220		Removed	11/1/1990
16571	1 - 1	GREEN, RALPH L	203 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	10/1/1990
16908	1 - 1	GRINDLE, DIANA L	211 MAPLE DR	GORHAM	Single Residence	1/1/1982	275		Removed	2/10/1997
14557	1 - 1	HANSCOM, CLYDE	FRIENDLEY VILLAGE 48 MAPLE DR	GORHAM	Unknown Address	10/1/1969	275		Removed	4/14/2010
5993	1 - 1	HATCH, WILLIAM A	277 OAK CIRCLE	GORHAM	Single Residence	6/1/1983	275		Removed	12/1/1990
20128	1 - 1	HAWKES GAS STATION	807 GRAY RD	GORHAM	Commercial	10/1/1947	1000		Removed	4/12/1999
8098	1 - 1	HAWKES, CATHERINE	237 MAIN ST	GORHAM	Single Residence	1/1/1970	550		Removed	10/1/1991
17227	1 - 1	HENDERSON, MARC A	118 HEMLOCK DR	GORHAM	Single Residence	1/1/1976	275		Removed	11/1/1990
16591	1 - 1	HENDERSON, ROBERT B	250 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1990
17968	1 - 1	HICKS, RICHARD A & CONNIE L	260 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	6/1/1993
720	1 - 1	HILL ACME GORHAM CO	G HUTCHERSON DR	GORHAM	Commercial	9/1/1979	2000		Removed	5/1/1990
720	2 - 1	HILL ACME GORHAM CO	G HUTCHERSON DR	GORHAM	Commercial	9/1/1979	2000		Removed	5/1/1990
11311	1 - 1	HILL APARTMENTS	17 WATER ST	GORHAM	Multiple Residence	10/1/1969	500		Removed	10/1/1994
4000	1 - 1	HILL, EDITH	274 OAK CIRCLE	GORHAM	Single Residence	1/1/1974	275		Removed	9/1/1989
16935	1 - 1	HILTON, MICHAEL L	175 MAPLE DR	GORHAM	Single Residence	1/1/1976	275		Removed	9/1/1990
11392	1 - 1	HODGIN, LEE ANN	217 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
16900	1 - 1	HODGKIN, ROBERT & KATHLEEN	173 MAPLE DR	GORHAM	Single Residence	1/1/1982	275		Removed	10/1/1990
13118	1 - 1	HOLMES, GEORGE	294 CHESTNUT CIRCLE	GORHAM	Single Residence	6/1/1975	275		Removed	5/1/1991
3353	1 - 1	HOMES UNLIMITED INC	RT 25	GORHAM	Commercial	1/1/1974	3000		Removed	6/1/1991
3353	2 - 1	HOMES UNLIMITED INC	RT 25	GORHAM	Commercial	1/1/1974	3000		Removed	6/1/1991
3353	3 - 1	HOMES UNLIMITED INC	RT 25	GORHAM	Commercial	1/1/1974	3000		Removed	12/11/1991
3353	4 - 1	HOMES UNLIMITED INC	RT 25	GORHAM	Commercial	1/1/1974	2000		Removed	6/1/1991
3353	5 - 1	HOMES UNLIMITED INC	RT 25	GORHAM	Commercial	1/1/1974	500		Removed	6/1/1991
18044	1 - 1	HORIGAN, MICHAEL A	151 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	0		Removed	11/1/1991
4993	1 - 1	HOYT, MICHAEL P	297 CHESTNUT CIRCLE	GORHAM	Single Residence	6/1/1977	275		Removed	2/10/1997
1356	1 - 1	HUNTER, ETHEL	75 FOREST CIRCLE	GORHAM	Single Residence	1/1/1971	220		Removed	11/1/1990
16573	1 - 1	HUNTER, JAMES	265 MAPLE DR	GORHAM	Single Residence	1/1/1978	275		Removed	10/1/1994
7254	1 - 1	HUTTI, AUNDREY & PATRICIA	283 BIRCH DR	GORHAM	Single Residence	1/1/1975	275		Removed	6/1/1991
21626	1 - 1	HYNES, NORWOOD	39 LONGFELLOW RD	GORHAM	Single Residence	10/1/1969	275		Removed	2/24/2010
16325	1 - 1	INGALLS, ELIZABETH J	287 ASH DR	GORHAM	Single Residence	1/1/1976	275		Removed	5/8/1991
14516	1 - 1	JACKSON APT HOUSE	108 STATE ST	GORHAM	Single Residence	6/1/1979	500		Removed	6/1/1998
20769	1 - 1	JACKSON, JOHN	108 STATE ST	GORHAM	Single Residence	10/1/1969	275		Removed	4/23/2003
20769	2 - 1	JACKSON, JOHN	108 STATE ST	GORHAM	Single Residence	10/1/1969	1000		Removed	4/23/2003
6287	1 - 1	JAMES, WILLIAM & LINDA	284 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	5/1/1990
1700	1 - 1	JENSEN, EMERY A	53 EVERGHREEN DR	GORHAM	Single Residence	1/1/1977	250		Removed	7/1/1990
280	1 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	1/1/1985	10000		Removed	11/10/1997
280	2 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	1/1/1985	10000		Removed	11/10/1997
280	3 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	2/1/1985	550		Removed	8/15/1995

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280	4 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	2/1/1985	550		Removed	8/15/1995
280	5 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	1/1/1985	1000		Removed	8/15/1995
280	6 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	1000		Active	8/17/1995
280	6 - 2	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	1000		Active	8/17/1995
280	6 - 3	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	3000		Active	8/17/1995
280	7 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	11/10/1997	10000		Active	11/10/1997
280	7 - 2	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	11/10/1997	10000		Active	11/10/1997
3743	1 - 1	JOHNSON, KIMBERLY A	102 CEDAR CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1990
16587	1 - 1	JOHNSTON, MARYON L	122 BEACH CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1990
10838	1 - 1	KEDDY, ROYDEN A	72 SOUTH ST	GORHAM	Single Residence	10/1/1917	1000		Removed	4/1/1989
16344	1 - 1	KERN, KATHLEEN	252 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1991
8752	1 - 1	KEY BANK OF SOUTHERN MAINE	65 MAIN ST	GORHAM	Commercial	1/1/1968	500		Removed	6/1/1990
12398	1 - 1	KING, L MARSH	300 ASH DR	GORHAM	Single Residence	10/1/1969	200		Removed	12/1/1989
17864	1 - 1	KINNEY, VICKI	216 MAPLE DR	GORHAM	Single Residence	6/1/1973	225		Removed	3/1/1995
10487	1 - 1	KNIGHT, KIM & ANN	172 MAIN ST	GORHAM	Single Residence	10/1/1969	1000		Removed	9/1/1994
16056	1 - 1	KNIGHT, NELLIE R	292 CHESTNUT CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
388	1 - 1	KNOWLES INDUSTRIAL SVC CO	NEW PORTLAND RD	GORHAM	Commercial	2/1/1978	10000		Removed	1/25/1995
388	2 - 1	KNOWLES INDUSTRIAL SVC CO	NEW PORTLAND RD	GORHAM	Commercial	2/1/1978	10000		Removed	1/25/1995
5373	1 - 1	KYLE, RICHARD JR	89 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	11/30/1987
9091	1 - 1	LACHANCE BRICK CO	RT 237	GORHAM	Commercial	6/1/1978	6000		Removed	10/1/1992
20899	1 - 1	LAKE REGION FURNITURE	673 MAIN ST	GORHAM	Commercial	10/1/1969	2000		Removed	8/24/2004
13451	1 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	1/1/1971	6000		abandoned in place	5/12/2004

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
13451	2 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	1/1/1971	6000		Removed	5/12/2004
13451	3 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	1/1/1971	6000		Removed	5/1/1991
13451	4 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	5/24/1991	7000		Removed	5/12/2004
13451	4 - 2	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	5/24/1991	3000		Removed	5/12/2004
13451	5 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	5/24/1991	2000		Removed	5/12/2004
13451	6 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	4/15/2004	10000		Active	6/4/2004
13451	6 - 2	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	4/15/2004	5000		Active	6/4/2004
13451	7 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	6/4/2004	5000		Active	6/4/2004
13451	7 - 2	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	6/4/2004	3000		Active	6/4/2004
9533	1 - 1	LANDRY, GRACE	32 EVERGREEN DR	GORHAM	Single Residence	10/1/1971	275		Removed	4/1/1989
10185	1 - 1	LANDRY, PATRICIA	28 EVERGREEN DR	GORHAM	Single Residence	7/1/1971	275		Removed	1/1/1989
14698	1 - 1	LAVERDIERES DRUG	102-104 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	10/1/1994
18547	1 - 1	LAWLER, LINDA	259 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	4/1/1993
3290	1 - 1	LECONTE, SHERIAN L	245 ASH DR	GORHAM	Single Residence	1/1/1979	275		Removed	5/9/1991
6581	1 - 1	LENDWAY, CYNTHIA	100 CEDAR CIRCLE	GORHAM	Single Residence	9/1/1983	275		Removed	5/1/1990
8036	1 - 1	LEVINE, MYRON J	8 WILLOW CIRCLE	GORHAM	Unknown Address	7/1/1981	275		Removed	9/1/1993
8434	1 - 1	LEWIS, DAVID & VIRGINIA	FLAGGY MEADOW RD	GORHAM	Single Residence	10/1/1973	500		Removed	5/1/1989
10595	1 - 1	LIBBY, ELIZABETH A	181 MAPLE DR	GORHAM	Single Residence	4/1/1973	275		Removed	4/1/1990
274	1 - 1	LITTLE FALLS SCHOOL	270 MAIN ST	GORHAM	Public Facility	9/1/1962	5000		Removed	8/1/1994
16760	1 - 1	LONGO, JOHN	116 HEMLOCK DR	GORHAM	Single Residence	1/1/1972	275		Removed	3/1/1991
7613	1 - 1	LOVEJOY, JAMES & JEANNINE	162 EVERGREEN DR	GORHAM	Single Residence	1/1/1900	250		Removed	9/10/1989
7899	1 - 1	LOVEJOY, SCOTT & SHEILA	225 MAPLE DR	GORHAM	Single Residence	1/1/1975	275		Removed	6/1/1995

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12111	1 - 1	LUNDBERG, JOHN A	13 WILLOW CIRCLE	GORHAM	Single Residence	1/1/1972	275		Removed	6/24/1991
17753	1 - 1	LUNDBERG, JOHN A	13 WILLOW CIRCLE	GORHAM	Single Residence	1/1/1973	275		Removed	11/1/1991
18298	1 - 1	LUNT, ROLAND W	132 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	225		Removed	8/23/1997
16655	1 - 1	LYNN, MICHAEL & GWENDOLYN	139 JUNIPER CIRCLE	GORHAM	Single Residence	9/1/1980	275		Removed	4/1/1990
11507	1 - 1	MACDONALD, WILLIAM W	15 POPLAR CIRCLE	GORHAM	Farm	5/1/1971	275		Removed	5/1/1989
11371	1 - 1	MACKENZIE, PERLEY C	180 MAPLE DR	GORHAM	Single Residence	6/1/1971	275		Removed	8/1/1989
7148	1 - 1	MAINE MOBILE HOMES LTD	17 POPLAR CIRCLE	GORHAM	Single Residence	5/1/1971	275		Removed	7/1/1986
3814	1 - 1	MARCROFT, JAMES R	205 MAPLE DR	GORHAM	Single Residence	10/1/1985	275		Removed	6/8/1993
4721	1 - 1	MARQUIS, DOUGLAS & DEBRA	MAPLE ST LOT 172	GORHAM	Single Residence	6/1/1977	250		Removed	6/30/1996
4872	1 - 1	MARSTON, GERALD D	243 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
18539	1 - 1	MARTIN, MILDRED	7 PREBLE ST	GORHAM	Single Residence	10/1/1969	275		abandoned in place	2/1/1993
6279	1 - 1	MASONIC BUILDING	RTS 25 & 114	GORHAM	Commercial	10/1/1969	1000		Removed	11/1/1991
17250	1 - 1	MAZZONE, ANGELO J	166 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	275		Removed	10/1/1990
1075	1 - 1	MCGARVEY, J BARRY	FRIENDLY VILLAGE	GORHAM	Single Residence	7/1/1973	275		Removed	10/1/1989
8570	1 - 1	MCGOVERN, SIMONNE M	145 HEMLOCK DR	GORHAM	Single Residence	6/1/1971	220		Removed	6/8/1993
5247	1 - 1	MCKAGUE, C & RONDEAU, D	90 HEMLOCK DR	GORHAM	Single Residence	10/1/1981	225		Removed	9/30/1994
7239	1 - 1	MCKENNEY, ROBERT & MERNA	51 TAMARACK CIRCLE	GORHAM	Single Residence	10/1/1981	275		Removed	3/8/1994
8811	1 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	4/1/1983	4000		Removed	3/1/1990
8811	2 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	5/1/1983	2000		Removed	3/1/1990
8811	3 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	10/1/1969	1000		Removed	5/24/1990
8811	4 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	5/1/1967	2000		Removed	6/1/1987
8811	5 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	3/1/1990	6000		Active	3/1/1990

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7149	1 - 1	MEROLA, AL	209 MAPLE DR	GORHAM	Single Residence	2/1/1981	275		Removed	5/1/1990
4007	1 - 1	MILBURY, ALLEN	HARDING BRIDGE RD	GORHAM	Single Residence	5/1/1974	1000		Removed	7/1/1990
16527	1 - 1	MOBILE HOME BROKERS UNLIMITED	197 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	11/1/1989
11342	1 - 1	MODERNE RUG CLEANING INC	LOWER MAIN ST	GORHAM	Commercial	10/1/1982	500		Removed	10/1/1992
11357	1 - 1	MONTECALVO CATHERINE	60 EVERGREEN DR	GORHAM	Single Residence	8/1/1974	275		Removed	3/1/1991
11338	1 - 1	MOORE & SIROIS	81 FOREST CIRCLE	GORHAM	Single Residence	1/1/1980	220		Removed	10/20/1992
6733	1 - 1	MOORE, RALPH	3 WILLOW CIRCLE	GORHAM	Single Residence	1/1/1972	275		Removed	5/1/1990
15683	1 - 1	MOREAU, DEBORAH L	91 HELLOCK DR	GORHAM	Single Residence	10/1/1969	225		Removed	5/1/1989
11367	1 - 1	MOSHER, ALBERT JR	MOSHER CORNER	GORHAM	Single Residence	7/1/1979	1000		Removed	9/11/1997
10296	1 - 1	MUIHERIN, JESSIE F	WILLOW CIRCLE	GORHAM	Single Residence	6/1/1970	220		Removed	8/1/1989
272	1 - 1	MUNICIPAL CENTER	270 MAIN ST	GORHAM	Public Facility	8/1/1973	3000		Removed	6/26/1995
272	2 - 1	MUNICIPAL CENTER	270 MAIN ST	GORHAM	Public Facility	8/1/1973	1000		Removed	6/26/1995
272	3 - 1	MUNICIPAL CENTER	270 MAIN ST	GORHAM	Public Facility	8/1/1973	2000		Removed	6/26/1995
21276	1 - 1	NAPPI DISTRIBUTORS	615 MAIN ST	GORHAM	Retail Oil	10/18/2007	6000		Active	10/18/2007
21276	1 - 2	NAPPI DISTRIBUTORS	615 MAIN ST	GORHAM	Retail Oil	10/18/2007	6000		Active	10/18/2007
8218	1 - 1	NARRAGANSETT SCHOOL	270 MAIN ST	GORHAM	Town "&" School	9/1/1981	6000		abandoned in place	12/22/1997
3162	1 - 1	NELSON, MARJORIE	158 EVERGREEN DR	GORHAM	Single Residence	1/1/1979	200		Removed	9/1/1991
20125	1 - 1	NORTHEASTERN AUTOMATIC DOOR	643 MAIN ST	GORHAM	Commercial	10/1/1969	500		Removed	7/19/2000
13652	1 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	7/1/1987	4000		Removed	4/9/2001
13652	2 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	7/1/1987	4000		Removed	4/9/2001
13652	3 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	7/1/1987	4000		Removed	4/9/2001
13652	4 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	7/1/1987	4000		Removed	4/9/2001

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13652	5 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	3/30/2001	15000		Active	5/6/2001
13652	5 - 2	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	3/30/2001	5000		Active	5/6/2001
13652	6 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/2007
13652	7 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/2007
13652	8 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/2007
13652	9 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/19/2007
13652	10 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/30/2008	3000		Active	9/1/2009
13652	11 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	10/20/2008	500		Active	9/1/2009
10612	1 - 1	O NEIL, PATRICIA A	152 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	250		Removed	11/1/1991
11340	1 - 1	OAKES, KIM	96 CEDAR CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	6/7/2001
11425	1 - 1	OLSEN, LOUISE	266 MAPLE DR	GORHAM	Single Residence	11/1/1973	275		Removed	10/1/1990
11355	1 - 1	OLSON, DOROTHY C	1 WILLOW CIRCLE	GORHAM	Single Residence	6/1/1971	220		Removed	8/1/1989
1742	1 - 1	ORDWAY, BONNIE JO	228 MAPLE DR	GORHAM	Single Residence	5/1/1984	275		Removed	10/14/1992
9961	1 - 1	OUELLETTE, RICHARD	97 CEDAR CIRCLE	GORHAM	Single Residence	10/1/1971	220		Removed	11/1/1988
5643	1 - 1	OVERLOCK, THERESA G	270 MAPLE DR	GORHAM	Single Residence	10/1/1974	275		Removed	7/1/1989
8344	1 - 1	PAGE, BARBARA	301 EVERGREEN DR	GORHAM	Single Residence	8/1/1985	275		Removed	10/18/1993
18656	1 - 1	PARENT, PATRICIA A	109 HEMLOCK DR	GORHAM	Single Residence	6/1/1972	220		Removed	2/10/1997
12865	1 - 1	PARK, CHRISTINA	99 CEDAR CIRCLE	GORHAM	Single Residence	10/1/1969	250		Removed	3/1/1991
17776	1 - 1	PARKER, PETER M	208 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	7/22/1991
7011	1 - 1	PATCHELL, MARILYN	247 ASH DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/15/1993
18796	1 - 1	PAUCEK, ROBERT	RT 22	GORHAM	Single Residence	1/1/1970	275		Removed	9/9/1996
16833	1 - 1	PEASE, ANDREW	12 PREBLE ST	GORHAM	Single Residence	10/1/1969	0		abandoned in place	7/1/1990

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16849	1 - 1	PECORARO, JOHN & KATHY	215 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	2/1/1996
11336	1 - 1	PEDRA, WALLY	143 HEMLOCK DR	GORHAM	Single Residence	10/1/1971	220		Removed	9/1/1990
8825	1 - 1	PELLEGRINI, FLORENCE	74 FOREST CIRCLE	GORHAM	Single Residence	7/1/1971	275		Removed	4/1/1990
16710	1 - 1	PETERSON, RUBY J	219 MAPLE DR	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1990
6401	1 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	7/1/1977	10000		Removed	8/1/1989
6401	2 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	7/1/1977	4000		Removed	8/1/1989
6401	3 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	7/1/1977	3000		Removed	8/1/1989
6401	4 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	1/1/1977	275		Removed	8/1/1989
6401	5 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	10000		Planned for Removal	3/19/2012
6401	6 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
6401	7 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
6401	8 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
11511	1 - 1	PHINNEY LUMBER CO	FORT HILL RD RT 114	GORHAM	Commercial	2/1/1981	3000		Removed	12/8/1992
11511	2 - 1	PHINNEY LUMBER CO	FORT HILL RD RT 114	GORHAM	Commercial	11/1/1979	1000		Removed	12/1/1992
15914	1 - 1	PLOURD, JAMES & MARTINA	137 JUNIPER CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
11243	1 - 1	POITRAS, ROBERT J	165 EVERGREEN DR	GORHAM	Single Residence	1/1/1974	275		Removed	8/1/1989
3176	1 - 1	PORTER, CHARLES N	LOVERS LANE	GORHAM	Single Residence	4/1/1977	550		Removed	11/1/1994
10362	1 - 1	PORTLAND WATER DISTRICT	LITTLE FALLS SO WINDHAM W T	GORHAM	Public Facility	10/1/1986	550		Removed	11/25/1996
7382	1 - 1	PRITCHARD, DONALD C	299 CHESTNUT CIRCLE	GORHAM	Single Residence	6/1/1974	220		Removed	9/1/1990
7551	1 - 1	PROUDFOOT, LLOYD & PRISCILLA	37 EVERGREEN DR	GORHAM	Single Residence	2/1/1976	275		Removed	8/1/1990
276	1 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	6/1/1972	1000		Removed	12/1/1990
276	2 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	6/1/1972	1000		Removed	12/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
276	3 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	6/1/1972	5000		Removed	12/1/1990
276	4 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	7/1/1984	2000		Removed	12/1/1990
276	5 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	10/1/1969	500		Removed	10/1/1994
276	6 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	12/1/1990	10000		Active	12/1/1990
276	7 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	12/1/1990	10000		Active	12/1/1990
9160	1 - 1	PUGH, DEBORAH H	121 BEECH CIRCLE	GORHAM	Single Residence	10/1/1969	200		Removed	10/1/1990
16559	1 - 1	PUOPOLO, JOHN	195 MAPLE DR	GORHAM	Multiple Residence	7/1/1973	275		Removed	10/1/1989
16603	1 - 1	PUTMAN, RICHARD & ELAINE	34 EVERGREEN DR	GORHAM	Single Residence	1/1/1978	275		Removed	6/1/1990
3880	1 - 1	QUANT, ROGER & LAURA	104 CEDAR CIRCLE	GORHAM	Single Residence	1/1/1974	275		Removed	10/1/1990
5595	1 - 1	QUINT, PRESTON	232 MAPLE DR	GORHAM	Single Residence	4/1/1978	275		Removed	9/1/1989
16952	1 - 1	REID, ROBERT & BONNIE	55 EVERGREEN DR	GORHAM	Single Residence	1/1/1977	275		Removed	9/29/1993
3405	1 - 1	REYNOLDS SPORT CENTER	RT 202	GORHAM	Commercial	4/1/1982	250		Removed	8/1/1991
3405	2 - 1	REYNOLDS SPORT CENTER	RT 202	GORHAM	Commercial	10/1/1983	250		Removed	9/25/1991
3315	1 - 1	RHOADS, SALLIE L	45 TAMARACK CIRCLE	GORHAM	Single Residence	6/1/1971	220		Removed	10/1/1990
9956	1 - 1	RICE, D & GRENIER, M	35 EVERGREEN DR	GORHAM	Single Residence	10/1/1969	250		Removed	8/1/1990
7972	1 - 1	RICHARD, DIANE	30 EVERGREEN DR	GORHAM	Single Residence	1/1/1985	275		Removed	7/1/1992
13725	1 - 1	RICHARD, ROBERT A	146 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	275		Removed	5/1/1990
9880	1 - 1	RILEY, GEORGE	49 TAMARACK CIRCLE	GORHAM	Single Residence	2/1/1981	275		Removed	9/1/1990
1509	1 - 1	RINES, BERNARD P	WALNUT CREST RD	GORHAM	Single Residence	5/1/1978	2000		Removed	9/11/1996
1509	2 - 1	RINES, BERNARD P	WALNUT CREST RD	GORHAM	Single Residence	8/1/1974	2020		Removed	10/1/1994
1509	3 - 1	RINES, BERNARD P	WALNUT CREST RD	GORHAM	Single Residence	11/1/1965	3000		Removed	6/1/1990
1509	4 - 1	RINES, BERNARD P	WALNUT CREST RD	GORHAM	Single Residence	1/1/1928	1000		Removed	10/1/1990

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9952	1 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	4/1/1983	5000		Removed	9/29/1997
9952	2 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	4/1/1975	10000		Removed	9/29/1997
9952	3 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	4/1/1980	10000		Planned for Removal	4/24/2012
9952	4 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	9/28/1997	10000		Active	9/28/1997
15759	1 - 1	ROBERTSON, JAMES & WANDA	88 HEMLOCK DR	GORHAM	Single Residence	10/1/1969	0		Removed	11/1/1989
7241	1 - 1	ROBIE, JOCK	34 ROBIE ST	GORHAM	Single Residence	10/1/1969	500		Removed	6/1/1989
17431	1 - 1	ROCK HILL APARTMENTS	114 SOUTH ST	GORHAM	Multiple Residence	10/1/1969	1000		Removed	11/9/1993
5476	1 - 1	RODRIGUEZ, EVELYN	65 EVERGREEN DR	GORHAM	Single Residence	7/1/1977	275		Removed	6/27/1990
14033	1 - 1	ROSS, CATHY & MORRIS, NICHOLAS	188 MAPLE CIRCLE	GORHAM	Single Residence	8/1/1976	275		Removed	6/1/1993
16880	1 - 1	ROWE, ROBERT W	110 HEMLOCK DR	GORHAM	Single Residence	9/1/1983	240		Removed	9/30/1992
16377	1 - 1	RUDCHYK, MARIA	176 MAPLE DR	GORHAM	Single Residence	1/1/1973	220		Removed	5/1/1991
10379	1 - 1	RYALL, OLIN	16 POPLAR CIRCLE	GORHAM	Single Residence	10/1/1969	200		Removed	
17168	1 - 1	RYAN, ALICE P	76 FOREST CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	10/29/1992
9600	1 - 1	SAHADAK, DAVID & AMANDA	70 FOREST CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	8/22/1989
8479	1 - 1	SANBORN, ROLAND	154 SPILLER RD	GORHAM	Single Residence	8/1/1976	500		Removed	7/1/1993
8479	2 - 1	SANBORN, ROLAND	154 SPILLER RD	GORHAM	Single Residence	10/1/1969	500		Removed	7/1/1993
11389	1 - 1	SANG, O LEE	298 CHESTNUT CIRCLE	GORHAM	Single Residence	7/1/1975	275		Removed	6/1/1990
7340	1 - 1	SAWTELLE, FERN A	256 FRIENDLY VILLAGE	GORHAM	Single Residence	2/1/1973	275		Removed	2/1/1990
15943	1 - 1	SAYWARD, BARBARA B	2 WILLOW CIRCLE	GORHAM	Single Residence	9/1/1973	220		Removed	9/1/1989
14795	1 - 1	SCHOOL ST WASTEWATER PUMP STA	SCHOOL ST	GORHAM	Public Facility	5/1/1988	550		Removed	11/25/1996
11380	1 - 1	SCHOOLS, GALEN R	162 EVERGREEN DR	GORHAM	Single Residence	1/1/1972	250		Removed	8/1/1989
4212	1 - 1	SERFES, JEFFREY L	236 BIRCH DR	GORHAM	Single Residence	3/1/1982	275		Removed	8/1/1995

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21693	1 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	25000		Active	11/11/2011
21693	2 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	25000		Active	11/11/2011
21693	3 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	15000		Active	11/11/2011
21693	4 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	6000		Active	11/11/2011
6521	1 - 1	SHUMWAY, LARRY E	185 MAPLE ST	GORHAM	Single Residence	4/1/1973	220		Removed	6/1/1990
6522	1 - 1	SHUMWAY, NATALIE R	58 EVERGREEN DR	GORHAM	Single Residence	7/1/1971	275		Removed	4/1/1990
3175	1 - 1	SLC ENTERPRISES	84 JOHNSON RD	GORHAM	Single Residence	10/1/1969	2000		Removed	11/22/1996
3175	2 - 1	SLC ENTERPRISES	84 JOHNSON RD	GORHAM	Single Residence	10/1/1969	275		Removed	11/22/1996
5372	1 - 1	SLEEPER, PHILLIP	67 EVERGREEN DR	GORHAM	Single Residence	1/1/1970	275		Removed	9/1/1989
8993	1 - 1	SMITH, CLAUDIA L	101 CEDAR CIRCLE	GORHAM	Single Residence	7/1/1972	250		Removed	5/16/1991
7147	1 - 1	SMITH, DALE & KAREN	154 EVERGREEN DR	GORHAM	Single Residence	12/1/1985	275		Removed	2/10/1997
16171	1 - 1	SMITH, GLENDON F	72 FOREST CIRCLE	GORHAM	Single Residence	10/1/1969	275		Removed	9/1/1989
9623	1 - 1	SOULE, MARY E	71 FOREST CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	9/1/1989
20167	1 - 1	SOUTH GORHAM BAPTIST CHURCH	53 COUNTY RD	GORHAM	Public Facility	10/1/1969	1000		Removed	7/12/1999
7669	1 - 1	SOUZA, ALBINO	229 MAPLE DR	GORHAM	Single Residence	1/1/1974	275		Removed	1/1/1990
9493	1 - 1	SOUZA, PAMELA	633 FORT HILL RD	GORHAM	Single Residence	1/1/1977	1000		Removed	10/11/2004
10093	1 - 1	SPENCER, RALPH C JR	14 WILLOW CIRCLE	GORHAM	Single Residence	10/1/1969	220		Removed	8/1/1989
13940	1 - 1	ST ANNES CHURCH	299 MAIN ST	GORHAM	Single Residence	1/1/1967	1000		Removed	7/1/1989
16585	1 - 1	STEVENS, JANICE	184 MAPLE DR	GORHAM	Single Residence	8/1/1975	275		Removed	5/1/1991
1938	1 - 1	STORAGE BUILDINGS	8 ELM ST	GORHAM	Single Residence	10/1/1969	2000		Removed	11/1/1990
1938	2 - 1	STORAGE BUILDINGS	8 ELM ST	GORHAM	Single Residence	10/1/1969	2000		Removed	11/1/1990
1938	3 - 1	STORAGE BUILDINGS	8 ELM ST	GORHAM	Single Residence	10/1/1969	2000		Removed	11/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
7785	1 - 1	SULLIVAN, MARION M	66 EVERGREEN DR	GORHAM	Single Residence	10/1/1976	275		Removed	11/1/1994
7477	1 - 1	SULLIVAN, RICHARD S	5 WILLOW CIRCLE	GORHAM	Single Residence	1/1/1971	275		Removed	10/25/1990
2502	1 - 1	THE REECE CORP	HUTCHERSON DR	GORHAM	Industrial	6/1/1974	2000		abandoned in place	11/1/1989
3952	1 - 1	THIBAULT, ROLAND		GORHAM	Retail Oil	4/1/1972	3000		Removed	9/1/1986
3952	2 - 1	THIBAULT, ROLAND		GORHAM	Retail Oil	5/1/1972	4000		Removed	9/1/1986
3952	3 - 1	THIBAULT, ROLAND		GORHAM	Retail Oil	6/1/1973	4000		Removed	9/1/1986
2716	1 - 1	THURLOW, MARIAN	199 MOSHER RD	GORHAM	Single Residence	1/1/1968	972		Removed	7/1/1989
2716	2 - 1	THURLOW, MARIAN	199 MOSHER RD	GORHAM	Single Residence	1/1/1968	271		Removed	7/1/1989
19401	1 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	12000		Active	9/3/1996
19401	2 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	10000		Active	9/3/1996
19401	2 - 2	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	2000		Active	9/3/1996
19401	3 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	4/26/2004	12000		Active	12/12/2003
7245	1 - 1	TODERICO, THOMAS M	119 HEMLOCK DR	GORHAM	Single Residence	1/1/1977	275		Removed	4/1/1990
14447	1 - 1	TOWN LINE GAS MART	669 LOWER MAIN ST	GORHAM	Retail Oil	8/1/1975	6000		Removed	11/11/1997
14447	2 - 1	TOWN LINE GAS MART	669 LOWER MAIN ST	GORHAM	Retail Oil	8/1/1975	6000		Removed	11/11/1997
14447	3 - 1	TOWN LINE GAS MART	669 LOWER MAIN ST	GORHAM	Retail Oil	8/1/1975	3000		Removed	11/11/1997
16574	1 - 1	TRACY, HOWARD J	273 OAK CIRCLE	GORHAM	Single Residence	9/1/1977	250		Removed	8/1/1991
6915	1 - 1	TRACY, PAUL F SR	194 MAPLE DR	GORHAM	Single Residence	11/1/1972	275		Removed	4/1/1990
5975	1 - 1	TUCKER, GEORGE F	186 MAPLE DR	GORHAM	Single Residence	2/1/1978	275		Removed	2/10/1997
12805	1 - 1	TUOMINEN, KIM & SHERRY	223 MAPLE DR	GORHAM	Single Residence	1/1/1978	275		Removed	11/1/1990
20079	1 - 1	UNITED STATES POSTAL SVC	25 MECHANIC ST	GORHAM	Commercial	10/1/1969	750		Removed	2/6/1999
20079	2 - 1	UNITED STATES POSTAL SVC	25 MECHANIC ST	GORHAM	Commercial	10/1/1969	3000		Removed	2/6/1999

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3895	1 - 1	UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	GORHAM	Public Facility	1/1/1962	15000		Removed	6/11/2002
3895	2 - 1	UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	GORHAM	Public Facility	1/1/1983	20000		Removed	6/11/2002
3895	3 - 1	UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	GORHAM	Public Facility	10/1/1969	500		Removed	1/1/1989
3895	4 - 1	UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	GORHAM	Public Facility	10/1/1969	1000		Removed	7/1/1993
182	1 - 1	US POSTAL SVC	54 MAIN ST	GORHAM	Federal Facility	8/1/1964	1500		Removed	8/1/1991
17761	1 - 1	USM BRICK SHOP	37 COLLEGE AVE	GORHAM	Public Facility	6/1/1974	1100		Removed	11/15/1994
7180	1 - 1	VANDERBURGH, MICHAEL & DAWN	84 FOREST CIRCLE	GORHAM	Single Residence	10/1/1969	200		Removed	10/1/1989
1491	1 - 1	VELLANI, DON J	233 BRICH DR	GORHAM	Single Residence	1/1/1975	275		Removed	2/10/1997
2318	1 - 1	VERRIER, DAVID E	COUNTY RD	GORHAM	Single Residence	11/1/1975	500		Removed	11/1/1991
16699	1 - 1	VERRILLS VARIETY	359 SEBAGO LAKE RD	GORHAM	Retail Oil	10/1/1969	3000		Removed	11/1/1990
16699	2 - 1	VERRILLS VARIETY	359 SEBAGO LAKE RD	GORHAM	Retail Oil	10/1/1969	1000		Removed	11/1/1990
16699	3 - 1	VERRILLS VARIETY	359 SEBAGO LAKE RD	GORHAM	Retail Oil	10/1/1969	500		abandoned in place	11/1/1990
11238	1 - 1	WALLACE, ROBERT & HOPE	187 MAPLE DR	GORHAM	Single Residence	1/1/1973	275		Removed	6/1/1989
5834	1 - 1	WARD, ANTHONY & PENNY	178 MAPLE DR	GORHAM	Single Residence	7/1/1972	275		Removed	2/10/1997
7164	1 - 1	WESCOTT, BRAD & BRENDA	234 BIRCH DR	GORHAM	Single Residence	10/1/1969	275		Removed	2/10/1997
278	1 - 1	WHITE ROCK FIRE STATION	WILSON RD	GORHAM	Public Facility	8/1/1982	1000		Removed	10/31/1995
7201	1 - 1	WHITE ROCK OUTBOARD INC	RT 237	GORHAM	Retail Oil	6/1/1972	1000		Removed	12/1/1987
7201	2 - 1	WHITE ROCK OUTBOARD INC	RT 237	GORHAM	Retail Oil	6/1/1972	2000		Removed	12/1/1987
8220	1 - 1	WHITE ROCK SCHOOL	270 MAIN ST	GORHAM	Public Facility	9/1/1962	5000		Removed	7/1/1989
9573	1 - 1	WHITE, GERTRUDE	127 HEMLOCK DR	GORHAM	Single Residence	4/1/1971	250		Removed	12/1/1989
16186	1 - 1	WHITNEY, ALDEN A	83 FOREST CIRCLE	GORHAM	Single Residence	10/1/1975	250		Removed	9/1/1989
5832	1 - 1	WILSON, ADAM W	BEECHRIDGE RD	GORHAM	Single Residence	9/1/1976	2000		Removed	9/1/1995

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5738	1 - 1	WINSLOW, LEE & THERESA	231 MAPLE DR	GORHAM	Single Residence	1/1/1974	250		Removed	2/10/1997
9545	1 - 1	WITHAM, ROBERT & MARIE	64 EVERGREEN DR	GORHAM	Single Residence	1/1/1972	275		Removed	5/1/1989
3447	1 - 1	WOLFF, HANS	106 HEMLOCK DR	GORHAM	Single Residence	10/1/1984	275		Removed	2/10/1997
11512	1 - 1	WOLFF, HANS E	106 HEMLOCK DR	GORHAM	Single Residence	1/1/1973	220		Removed	1/1/1989
21118	1 - 1	WOODS EXCAVATING LLC	21 JACKIES WAY	GORHAM	Commercial	2/3/2006	500		planned for installation	2/3/2006
3947	1 - 1	WOODWWARD, EVERETT	249 ASH DR	GORHAM	Single Residence	10/1/1973	220		Removed	6/1/1991
16820	1 - 1	WORCESTER, NAN P	98 CEDAR CIRCLE	GORHAM	Single Residence	1/1/1971	275		Removed	10/1/1990
2498	1 - 1	BAY STATE LOBSTER CO INC	BIRCH HARBOR	GOULDSBORO	Retail Oil	1/1/1980	4000		Removed	12/1/1988
2498	2 - 1	BAY STATE LOBSTER CO INC	BIRCH HARBOR	GOULDSBORO	Retail Oil	1/1/1980	4000		Removed	12/1/1988
19590	1 - 1	BRADLEY, CAMERON ESTATE OF	RT 186	GOULDSBORO	Single Residence	10/1/1969	4000		Removed	7/11/1997
19590	2 - 1	BRADLEY, CAMERON ESTATE OF	RT 186	GOULDSBORO	Single Residence	10/1/1969	4000		Removed	7/11/1997
6826	1 - 1	CHARLES, VERNAL G	GOULDSBORO PT RD	GOULDSBORO	Single Residence	10/1/1978	2000		Removed	12/1/1992
14385	1 - 1	CHASE, JOHN A JR	153 PAUL BUNGAN RD	GOULDSBORO	Single Residence	6/1/1970	500		Removed	9/1/1987
2843	1 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1977	3000		Removed	8/1/1991
2843	2 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1977	2000		Removed	8/1/1991
2843	3 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1977	1000		Removed	8/1/1991
2843	4 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1983	2000		Active	10/1/1983
2843	5 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1983	2000		Active	10/1/1983
2843	6 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	2/1/2005	1000		Active	10/1/1983
20502	1 - 1	DIMARCO REALTY	MAIN ST	GOULDSBORO	Commercial	10/1/1969	1000		abandoned in place	10/9/2001
21720	1 - 1	FORMER FINNEYS JUNKYARD	689 S GOULDSBORO RD	GOULDSBORO	Commercial	10/1/1969	1000		Removed	6/16/2011
21720	2 - 1	FORMER FINNEYS JUNKYARD	689 S GOULDSBORO RD	GOULDSBORO	Commercial	10/1/1969	2000		Removed	6/16/2011

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11259	1 - 1	WILTON TOWN OF	833 US RT 2 EAST	WILTON	Industrial	7/1/1959	10000		Removed	7/1/1992
11259	2 - 1	WILTON TOWN OF	833 US RT 2 EAST	WILTON	Industrial	7/29/1992	15000		Out of Service	5/27/2004
11259	3 - 1	WILTON TOWN OF	833 US RT 2 EAST	WILTON	Industrial	7/1/1959	10000		Removed	7/1/1992
18963	1 - 1	WILTON TOWN OF WASTETREAMENT	DAVIS COURT	WILTON	Town "&" School	5/1/1978	500		Removed	8/10/1998
18963	2 - 1	WILTON TOWN OF WASTETREAMENT	DAVIS COURT	WILTON	Town "&" School	5/1/1978	500		Removed	8/10/1998
18963	3 - 1	WILTON TOWN OF WASTETREAMENT	DAVIS COURT	WILTON	Town "&" School	5/1/1978	500		Removed	8/10/1998
18963	4 - 1	WILTON TOWN OF WASTETREAMENT	DAVIS COURT	WILTON	Town "&" School	5/1/1978	500		Removed	8/10/1998
18963	5 - 1	WILTON TOWN OF WASTETREAMENT	DAVIS COURT	WILTON	Town "&" School	5/1/1978	500		Removed	8/10/1998
2653	1 - 1	WILTON WAREHOUSE	MUNSON ROAD	WILTON	Industrial	1/1/1975	3000		Removed	11/1/1990
19781	1 - 1	7 ELEVEN 32543	889 ROOSEVELT TRAIL RT 302	WINDHAM	Retail Oil	6/25/1997	10000		Removed	12/21/2001
19781	2 - 1	7 ELEVEN 32543	889 ROOSEVELT TRAIL RT 302	WINDHAM	Retail Oil	6/25/1997	10000		Removed	12/21/2001
10055	1 - 1	AIMHI LODGE	AMHI WOODS ROAD	WINDHAM	Public Facility	10/1/1969	250		Removed	8/28/1990
555	1 - 1	AMATOS	RT 302	WINDHAM	Retail Oil	1/1/1973	10000		Removed	1/1/1993
555	2 - 1	AMATOS	RT 302	WINDHAM	Retail Oil	1/1/1973	10000		Removed	1/1/1993
555	3 - 1	AMATOS	RT 302	WINDHAM	Retail Oil	1/1/1973	10000		Removed	1/1/1993
555	4 - 1	AMATOS	RT 302	WINDHAM	Retail Oil	2/1/1993	10000		Removed	5/14/2004
555	5 - 1	AMATOS	RT 302	WINDHAM	Retail Oil	2/1/1993	4000		Removed	5/14/2004
555	5 - 2	AMATOS	RT 302	WINDHAM	Retail Oil	2/1/1993	6000		Removed	5/14/2004
15930	1 - 1	ARLINGTON ELEMENTARY SCHOOL	721 ROOSEVELT TRAIL	WINDHAM	Town "&" School	10/1/1969	1000		Removed	11/16/1994
15930	2 - 1	ARLINGTON ELEMENTARY SCHOOL	721 ROOSEVELT TRAIL	WINDHAM	Town "&" School	8/1/1989	1000		Removed	8/5/2002
5511	1 - 1	ATTENBURG, W M	65 PARK RD	WINDHAM	Single Residence	1/1/1948	250		Removed	6/1/1987

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
9500	1 - 1	AUCOINS SALES & SERVICE	633 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	2000		Removed	11/1/1986
9500	2 - 1	AUCOINS SALES & SERVICE	633 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	4000		Removed	11/1/1986
9500	3 - 1	AUCOINS SALES & SERVICE	633 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	5000		Removed	11/1/1986
20768	1 - 1	BAILEY, KATHLEEN	40 ALLEN DR	WINDHAM	Single Residence	10/1/1969	275		Removed	5/11/2003
16246	1 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	6000		Active	9/1/1989
16246	2 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	6000		Active	9/1/1989
16246	3 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	10000		Active	9/1/1989
4838	1 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	5000		Removed	4/1/1988
4838	2 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	5000		Removed	4/1/1988
4838	3 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	8000		Removed	5/3/1993
4838	4 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	8000		Removed	5/3/1993
4838	5 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	8000		Removed	5/3/1993
4838	6 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	1/1/1982	10000		Removed	5/3/1993
4838	7 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	5/1/1986	10000		Removed	5/3/1993
4838	8 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	20000		Active	6/30/1993
4838	9 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	9 - 2	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	11 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	11 - 2	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	2000		Active	6/30/1993
4026	1 - 1	BLUE SEAL FEEDS INC	43 MAIN ST	WINDHAM	Commercial	6/1/1980	275		Removed	10/1/1989
4052	1 - 1	BOULANGER'S GARAGE	156 RIVER ROAD	WINDHAM	Commercial	4/1/1983	1000		Removed	1/20/1993
4270	1 - 1	BRAGDONS TRANSPORTATION INC	157 MAIN ST	WINDHAM	Commercial	1/1/1978	500		Removed	12/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
4270	2 - 1	BRAGDONS TRANSPORTATION INC	157 MAIN ST	WINDHAM	Commercial	1/1/1978	500		Removed	12/1/1990
12487	1 - 1	CARLBERG, JOHN	WALTER PARTRIDGE ROAD	WINDHAM	Single Residence	9/1/1972	275		Removed	10/8/1991
13345	1 - 1	CAROLYNS CRAFTS	NORTH WINDHAM SHOPPING CTR	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
12533	1 - 1	CHURCH JC LATTER DAY SAINTS	RIVER RD	WINDHAM	Town "&" School	8/1/1984	1000		Removed	9/1/1994
12533	2 - 1	CHURCH JC LATTER DAY SAINTS	RIVER RD	WINDHAM	Town "&" School	11/1/1987	4000		Active	11/1/1987
3930	1 - 1	CLARK, DIANE W	PARK RD	WINDHAM	Single Residence	7/1/1976	350		Removed	8/21/1990
20897	1 - 1	CLARK, LILLA	11 TOWN FARM RD	WINDHAM	Single Residence	10/1/1969	500		Removed	1/4/2005
16961	1 - 1	COLLINS, BARBARA D	7 FERN AVE	WINDHAM	Single Residence	10/1/1969	275		Removed	6/20/1990
1991	1 - 1	COMBINED FILE WITH 1989	17 MALLISON FALLS RD	WINDHAM	Combined File	10/1/1969	1000		Removed	10/1/1998
1991	2 - 1	COMBINED FILE WITH 1989	17 MALLISON FALLS RD	WINDHAM	Combined File	4/20/1999	1000		combined file	6/14/2005
13160	1 - 1	CORNERSTONE ASSEMBLY OF GOD	COTTAGE ROAD	WINDHAM	Public Facility	1/1/1980	275		Removed	10/1/1992
19381	1 - 1	COTE, PAUL	477 ROSEVELT TRAIL	WINDHAM	Multiple Residence	10/1/1969	500		Removed	9/24/1996
13342	1 - 1	COURIER FREE PRESS	NORTH WINDHAM SHOPPING CTR.	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
1487	1 - 1	CR TANDBERG INC	GRAY RD RT 115	WINDHAM	Commercial	6/1/1975	1000		Removed	7/1/1990
1487	2 - 1	CR TANDBERG INC	GRAY RD RT 115	WINDHAM	Commercial	10/1/1974	500		Removed	7/1/1990
1487	3 - 1	CR TANDBERG INC	GRAY RD RT 115	WINDHAM	Commercial	7/1/1981	2000		Removed	7/1/1990
18733	1 - 1	CROCKER, JOAN ESTATE OF	2 LAKE AVENUE	WINDHAM	Single Residence	10/1/1969	500		Removed	4/1/1994
24	1 - 1	CUMBERLAND COUNTY CIVIL	85 HIGH ST	WINDHAM	Public Facility	7/1/1978	2000		Removed	11/16/1994
24	2 - 1	CUMBERLAND COUNTY CIVIL	85 HIGH ST	WINDHAM	Public Facility	10/1/1982	1000		Removed	11/16/1994
9073	1 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	1/7/1984	8000		Removed	4/25/2005
9073	2 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	1/7/1984	8000		Removed	4/25/2005
9073	3 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	1/7/1984	8000		Removed	4/25/2005

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
9073	4 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	1/7/1984	8000		Removed	4/25/2005
9073	5 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	12000		Active	6/1/2005
9073	6 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	12000		Active	6/1/2005
9073	7 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	8000		Active	6/1/2005
9862	1 - 1	CUMMINGS, JAMES & JON	22 LAMB STREET	WINDHAM	Multiple Residence	1/1/1973	1000		Removed	1/1/1990
10069	1 - 1	D & J EXCAVATING CO INC	12 HILLSIDE DR	WINDHAM	Commercial	7/1/1970	1000		Removed	12/1/1989
10069	2 - 1	D & J EXCAVATING CO INC	12 HILLSIDE DR	WINDHAM	Commercial	1/1/1969	500		Removed	4/1/1990
10069	3 - 1	D & J EXCAVATING CO INC	12 HILLSIDE DR	WINDHAM	Commercial	1/1/1968	500		Removed	4/1/1990
18653	1 - 1	DEPOT ENERGY	13 DEPOT STREET	WINDHAM	Industrial	1/1/1988	500		Removed	10/1/1993
8058	1 - 1	DEPOT ENERGY INC	29 DEPOT ST	WINDHAM	Commercial	8/1/1983	550		Removed	10/28/1993
8058	2 - 1	DEPOT ENERGY INC	29 DEPOT ST	WINDHAM	Commercial	10/1/1969	3000		Removed	9/1/1989
13343	1 - 1	DESIGNER FLEA	NORTH WINDHAM SHOPPING CTR.	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
6984	1 - 1	DIAMED INC	INLAND FARM DR	WINDHAM	Industrial	10/1/1969	300		Removed	9/1/1990
2754	1 - 1	DOERING, AUGUST P	27 WINDING WAY	WINDHAM	Single Residence	7/1/1976	1000		Removed	6/25/2003
9459	1 - 1	DON RICH HEATING COMPANY	ROUTES 302 & 35	WINDHAM	Retail Oil	6/1/1981	4000		Removed	7/1/1988
9459	2 - 1	DON RICH HEATING COMPANY	ROUTES 302 & 35	WINDHAM	Retail Oil	6/1/1981	8000		Removed	7/1/1988
9459	3 - 1	DON RICH HEATING COMPANY	ROUTES 302 & 35	WINDHAM	Retail Oil	10/1/1969	20000		Removed	7/1/1988
9459	4 - 1	DON RICH HEATING COMPANY	ROUTES 302 & 35	WINDHAM	Retail Oil	10/1/1969	1000		Removed	9/1/1989
9459	5 - 1	DON RICH HEATING COMPANY	ROUTES 302 & 35	WINDHAM	Retail Oil	10/1/1969	550		Removed	9/1/1989
15605	1 - 1	EB HARRIS & SON	478 RIVER RD	WINDHAM	Industrial	10/1/1969	10000		Removed	6/1/1989
21751	1 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	1000		Active	10/18/2011

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21751	2 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	1000		Active	10/18/2011
21751	3 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	500		Active	10/18/2011
21751	4 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	275		Active	10/18/2011
13953	1 - 1	ESTABROOK, DAVID & SHERRY	19 WARD ROAD	WINDHAM	Multiple Residence	1/1/1970	1000		Removed	3/1/1989
12548	1 - 1	ESTY, FRANCIS E	RIVER RD 768	WINDHAM	Single Residence	10/1/1969	1000		Removed	7/1/1989
12529	1 - 1	FAIRPOINT COMMUNICATIONS	426 GRAY RD	WINDHAM	Commercial	1/1/1969	1000		Removed	9/1/1989
12529	2 - 1	FAIRPOINT COMMUNICATIONS	426 GRAY RD	WINDHAM	Commercial	4/1/1988	550		Removed	10/18/1996
12529	3 - 1	FAIRPOINT COMMUNICATIONS	426 GRAY RD	WINDHAM	Commercial	10/1/1989	1000		Removed	10/7/1996
12529	4 - 1	FAIRPOINT COMMUNICATIONS	426 GRAY RD	WINDHAM	Commercial	10/18/1996	1000		Active	10/18/1996
19445	1 - 1	FAITH LUTHERN CHURCH	RT 302	WINDHAM	Public Facility	10/1/1969	275		Removed	11/23/1996
13344	1 - 1	FAMILY VIDEO INC	NORTH WINDHAM SHOPPING CTR	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
9016	1 - 1	FIELD ALLEN SCHOOL	RT 202	WINDHAM	Public Facility	10/1/1969	1000		Removed	8/1/1990
9965	1 - 1	FORBES, HILDA		WINDHAM	Single Residence	1/1/1950	275		abandoned in place	6/1/1990
16598	1 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	4000		Removed	5/29/1997
16598	2 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	4000		Removed	5/29/1997
16598	3 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	4000		Removed	5/29/1997
16598	4 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	4000		Removed	5/29/1997
16598	5 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	500		Removed	5/29/1997
16598	6 - 1	FOUR SEASONS SERVICENTER	619 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	500		Removed	5/29/1997
10025	1 - 1	GEORGE EMERSON & SONS INC	COLLINS POND RD	WINDHAM	Single Residence	10/1/1969	500		Removed	1/1/1989

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2254	1 - 1	GETTY GAS STATION	FEDERAL SHOPPING CENTER	WINDHAM	Retail Oil	9/1/1969	10000		Removed	5/1/1993
2254	2 - 1	GETTY GAS STATION	FEDERAL SHOPPING CENTER	WINDHAM	Retail Oil	9/1/1969	10000		Removed	5/1/1993
2254	3 - 1	GETTY GAS STATION	FEDERAL SHOPPING CENTER	WINDHAM	Retail Oil	9/1/1969	10000		Removed	5/1/1993
14273	1 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed	10/9/2006
14273	2 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed	10/9/2006
14273	3 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed	10/9/2006
14741	1 - 1	GILBERG, GARY & ROBERT	197 SANDBAR ROAD	WINDHAM	Single Residence	10/1/1969	550		Removed	5/1/1988
4284	1 - 1	GORHAM ADVANCED MATERIALS INST	211 MOSHER RD	WINDHAM	Commercial	10/1/1968	1000		Removed	10/1/1991
13138	1 - 1	GREEN, ROBERT S	731 ROOSEVELT TRAIL	WINDHAM	Commercial	10/1/1969	1000		Removed	8/1/1994
157	1 - 1	HALL IMPLEMENT CO	JCT 202 302	WINDHAM	Commercial	1/1/1977	2000		Removed	9/19/1991
133	1 - 1	HALL, STANLEY V	FOSTERS CORNER	WINDHAM	Farm	5/1/1979	10000		Removed	9/7/1993
133	2 - 1	HALL, STANLEY V	FOSTERS CORNER	WINDHAM	Farm	1/1/1979	10000		Removed	9/7/1993
133	3 - 1	HALL, STANLEY V	FOSTERS CORNER	WINDHAM	Farm	1/1/1900	1000		Removed	1/1/1986
133	4 - 1	HALL, STANLEY V	FOSTERS CORNER	WINDHAM	Farm	1/1/1972	1000		Removed	7/1/1992
14422	1 - 1	HANGING GARDENS GREENHOUSE	97 VARNEY MILL ROAD	WINDHAM	Commercial	10/1/1969	2000		Removed	6/1/1987
15604	1 - 1	HARRIS, EARL B	478 RIVER RD	WINDHAM	Single Residence	10/1/1969	1000		Removed	6/1/1989
17187	1 - 1	HARVEY, ROBERT K	469 GRAY RD	WINDHAM	Single Residence	10/1/1969	500		Removed	1/1/1991
13370	1 - 1	HAWKES, RICHARD	809 GRAY RD	WINDHAM	Commercial	1/1/1951	550		Removed	1/1/1987
13370	2 - 1	HAWKES, RICHARD	809 GRAY RD	WINDHAM	Commercial	1/1/1951	2000		Removed	1/1/1987
7235	1 - 1	HEMLOCK APTS	87 HAVEN RD	WINDHAM	Multiple Residence	1/1/1973	500		Removed	8/1/1989
9015	1 - 1	INDUSTRIAL ARTS BUILDING	RT 202	WINDHAM	Public Facility	10/1/1969	550		Removed	8/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
1386	1 - 1	KEL TON OIL CO INC	RT 302	WINDHAM	Retail Oil	10/1/1984	500		Removed	6/16/1997
1386	2 - 1	KEL TON OIL CO INC	RT 302	WINDHAM	Retail Oil	9/1/1984	2000		Removed	6/16/1997
12565	1 - 1	KNOWLL FARM	111 RIVER ROAD	WINDHAM	Farm	8/1/1983	300		Removed	10/1/1992
15347	1 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	12/1/1988	10000		Removed	3/22/2005
15347	2 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	12/1/1988	6000		Removed	3/22/2005
15347	3 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	12/1/1988	6000		Removed	3/22/2005
15347	4 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	12/1/1988	500		Removed	6/12/2003
15347	5 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	16000		Active	6/27/2005
15347	5 - 2	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	4000		Active	6/27/2005
15347	6 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	9000		Active	6/27/2005
15347	6 - 2	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	3000		Active	6/27/2005
16234	1 - 1	LC ANDREW INC	35 MAIN ST	WINDHAM	Commercial	10/1/1969	10000		Removed	11/1/1989
16234	2 - 1	LC ANDREW INC	35 MAIN ST	WINDHAM	Commercial	10/1/1969	10000		Removed	11/1/1989
11871	1 - 1	LIFETIME MUFFLER & BRAKE	695 ROOSEVELT TRAIL	WINDHAM	Commercial	6/1/1979	500		Removed	6/20/1997
11965	1 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1971	6000		Removed	5/1/1992
11965	2 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1971	6000		Removed	5/1/1992
11965	3 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1971	6000		Removed	5/1/1992
11965	4 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1971	10000		Removed	5/1/1992
11965	5 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1971	500		Removed	5/1/1992
11965	6 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	1000		Removed	7/1/1988
11965	7 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	8000		Active	6/1/1992

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
11965	7 - 2	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	4000		Active	6/1/1992
11965	7 - 3	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	3000		Active	6/1/1992
21188	1 - 1	LOWE'S OF NORTH WINDHAM	64 MANCHESTER DR	WINDHAM	Commercial	1/17/2006	1500		Active	1/17/2006
12558	1 - 1	M S HANCOCK LUMBER OF GRAY INC	FOSTERS CORNER	WINDHAM	Commercial	10/1/1969	10000		Removed	9/1/1986
1989	1 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	10/1/1969	1000		Removed	8/1/1989
1989	2 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	10/1/1969	12000		Removed	10/2/1998
1989	3 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	11/2/1989	1000		Removed	3/3/1998
1989	4 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	4/20/1999	12000		Active	5/20/1999
1989	5 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	4/20/1989	1000		Active	6/14/2005
8666	1 - 1	MANCHESTER ELEMENTARY SCHOOL	ROUTE 302	WINDHAM	Town "&" School	10/1/1969	5000		Removed	8/1/1989
8666	3 - 1	MANCHESTER ELEMENTARY SCHOOL	ROUTE 302	WINDHAM	Town "&" School	10/1/1969	10000		Removed	8/1/1989
8666	4 - 1	MANCHESTER ELEMENTARY SCHOOL	ROUTE 302	WINDHAM	Town "&" School	8/1/1989	2500		Active	8/1/1989
18768	1 - 1	MARCUS WOODS ELDERLY HOUSING	STREET 215 & RTE 115	WINDHAM	Public Facility	5/1/1994	3000		Active	5/3/1994
20500	1 - 1	MARINERS RESTUARANT INC	WHIPPLE RD	WINDHAM	Commercial	10/1/1969	250		Removed	12/5/2001
7439	1 - 1	MASON, TIMOTHY & DEBORAH	982 RIVER ROAD	WINDHAM	Single Residence	7/1/1978	275		Removed	8/6/1995
7439	2 - 1	MASON, TIMOTHY & DEBORAH	982 RIVER ROAD	WINDHAM	Single Residence	6/1/1979	275		Removed	7/1/1995
7439	3 - 1	MASON, TIMOTHY & DEBORAH	982 RIVER ROAD	WINDHAM	Single Residence	6/1/1979	500		Removed	8/6/1995
2961	1 - 1	MCCRORY STORE 77	RT 302	WINDHAM	Commercial	1/1/1970	10000		Removed	6/1/1991

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
10882	1 - 1	MCGOLDRICK MINE & QUARRY SUPP	323 WINDHAM CENTER RD	WINDHAM	Commercial	1/1/1970	2000		Removed	9/1/1992
20888	1 - 1	MDOT RIGHT OF WAY	RT 302	WINDHAM	State Facility	10/1/1969	1000		Removed	7/6/2004
20888	2 - 1	MDOT RIGHT OF WAY	RT 302	WINDHAM	State Facility	10/1/1969	3000		Removed	7/6/2004
20888	3 - 1	MDOT RIGHT OF WAY	RT 302	WINDHAM	State Facility	10/1/1969	750		Removed	7/6/2004
1990	1 - 1	ME CORRECT CTR SLAUGHTER HS	119 MALLISON ST	WINDHAM	State Facility	10/1/1969	1000		Removed	10/1/1998
10685	1 - 1	ML ROGERS INC	RT 202	WINDHAM	Commercial	1/1/1960	2000		Removed	10/1/1991
13900	1 - 1	MORIN, ROBERT	10 BEACH ROAD	WINDHAM	Single Residence	10/1/1969	275		Removed	9/21/2000
11872	1 - 1	MORRELL, RICHARD C	WINDHAM HILL	WINDHAM	Single Residence	1/1/1967	1000		Removed	9/11/1996
7659	1 - 1	NEW MARBLEHEAD MANOR	21 OAK LANE	WINDHAM	Multiple Residence	10/1/1969	275		Removed	10/1/1989
7659	2 - 1	NEW MARBLEHEAD MANOR	21 OAK LANE	WINDHAM	Multiple Residence	10/1/1969	275		Removed	10/1/1989
7659	3 - 1	NEW MARBLEHEAD MANOR	21 OAK LANE	WINDHAM	Multiple Residence	10/1/1969	275		Removed	10/1/1989
7659	4 - 1	NEW MARBLEHEAD MANOR	21 OAK LANE	WINDHAM	Multiple Residence	10/1/1969	275		Removed	10/1/1989
7659	5 - 1	NEW MARBLEHEAD MANOR	21 OAK LANE	WINDHAM	Multiple Residence	10/1/1969	275		Removed	10/1/1989
8945	1 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	1/1/1975	4000		Removed	5/1/1991
8945	2 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	1/1/1975	5000		Removed	5/1/1991
8945	3 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	1/1/1975	8000		Removed	5/1/1991
8945	4 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	10/1/1969	550		Removed	5/1/1991
8945	5 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	10/1/1969	550		Removed	5/1/1991
8945	6 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	7/1/1991	10000		Removed	1/30/1995
8945	7 - 1	NORTH WINDHAM CITGO	ROUTE 302	WINDHAM	Retail Oil	7/1/1991	10000		Removed	1/30/1995
8550	1 - 1	NORTH WINDHAM FIRE STATION	RT 302	WINDHAM	Town "&" School	6/1/1973	2000		Removed	10/1/1989
8550	2 - 1	NORTH WINDHAM FIRE STATION	RT 302	WINDHAM	Town "&" School	6/1/1973	3000		Removed	10/1/1989

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
8550	3 - 1	NORTH WINDHAM FIRE STATION	RT 302	WINDHAM	Town "&" School	10/1/1989	1000		Active	10/1/1989
2823	1 - 1	NORTH WINDHAM SHOPPING CENTER	ROUTE 302	WINDHAM	Commercial	1/1/1977	2000		Removed	6/1/1991
2823	2 - 1	NORTH WINDHAM SHOPPING CENTER	ROUTE 302	WINDHAM	Commercial	1/1/1977	2000		Removed	6/1/1991
2823	3 - 1	NORTH WINDHAM SHOPPING CENTER	ROUTE 302	WINDHAM	Commercial	10/1/1969	1000		Removed	6/1/1991
5814	1 - 1	NORTH WINDHAM UCC		WINDHAM	Public Facility	10/1/1969	2000		Removed	6/1/1990
19796	1 - 1	ODD FELLOWS HALL	531 ROOSEVELT TRAIL	WINDHAM	Public Facility	10/1/1969	550		Removed	7/11/1998
13346	1 - 1	P & B NORGE	NORTH WINDHAM SHOPPING CTR.	WINDHAM	Commercial	10/1/1969	1000		Removed	10/1/1994
17816	1 - 1	PENNELS, DEBORAH	20 WARD STREET	WINDHAM	Single Residence	10/1/1969	1000		Removed	6/1/1991
12568	1 - 1	PETES AUTO	RT 302	WINDHAM	Retail Oil	10/1/1969	5000		Removed	5/1/1988
12568	2 - 1	PETES AUTO	RT 302	WINDHAM	Retail Oil	10/1/1969	3000		Removed	5/1/1988
12568	3 - 1	PETES AUTO	RT 302	WINDHAM	Retail Oil	10/1/1969	3000		Removed	5/1/1988
12568	4 - 1	PETES AUTO	RT 302	WINDHAM	Retail Oil	10/1/1969	4000		Removed	5/1/1988
12568	5 - 1	PETES AUTO	RT 302	WINDHAM	Retail Oil	10/1/1969	3000		Removed	5/1/1988
4042	1 - 1	PLUMMER, CLIFFORD	358 RIVER ROAD	WINDHAM	Single Residence	1/1/1967	500		Removed	4/1/1989
11347	1 - 1	PORCH, HERBERT M	LAKE AVE	WINDHAM	Single Residence	7/1/1961	1000		Removed	6/1/1986
8717	1 - 1	PRATT ABBOTT INC	RT 302	WINDHAM	Commercial	1/1/1979	2000		Removed	6/1/1989
9571	1 - 1	PRESUMPSCOT SQ & COMPASS CLB	RIVER RD	WINDHAM	Public Facility	6/1/1970	1000		Removed	11/1/1992
4133	1 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	10/1/1969	8000		Removed	12/1/1994
4133	2 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	10/1/1969	5000		Removed	12/1/1994
4133	3 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	10/1/1969	3000		Removed	12/1/1994
4133	4 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	10/1/1969	550		Removed	6/1/1986
4133	5 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	10/1/1969	550		Removed	6/1/1986

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
4133	6 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	8/8/1997	20000		Active	8/8/1997
4133	7 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	8/8/1997	12000		Active	8/8/1997
19830	1 - 1	RACQUET BALL INTERNATIONAL	RT 302	WINDHAM	Commercial	10/1/1969	1000		Removed	12/20/1997
14941	1 - 1	RAYS AUTO PARTS INC	483 GRAY RD	WINDHAM	Commercial	10/1/1969	500		Removed	9/1/1989
20280	1 - 1	REQUETBALL INTERNATIONAL	RT 302	WINDHAM	Commercial	1/1/1969	1000		Removed	12/22/1997
15222	1 - 1	RICH TOOL & DIE CO	3 MALLISON FALLS RD	WINDHAM	Commercial	10/1/1969	3000		Removed	2/1/1989
15222	2 - 1	RICH TOOL & DIE CO	3 MALLISON FALLS RD	WINDHAM	Commercial	10/1/1969	3000		Removed	2/1/1989
15222	3 - 1	RICH TOOL & DIE CO	3 MALLISON FALLS RD	WINDHAM	Commercial	10/1/1969	500		Removed	6/1/1992
12647	1 - 1	RICHARDSON, EVERETT A	WHITES BRIDGE RD	WINDHAM	Single Residence	10/1/1969	1000		Removed	8/1/1986
97	1 - 1	RICHARDSONS BOATYARD	US RT 302	WINDHAM	Commercial	1/1/1966	1000		Removed	6/1/1989
97	2 - 1	RICHARDSONS BOATYARD	US RT 302	WINDHAM	Commercial	6/1/1966	275		abandoned in place	6/1/1989
97	3 - 1	RICHARDSONS BOATYARD	US RT 302	WINDHAM	Commercial	5/1/1970	275		abandoned in place	6/1/1989
97	4 - 1	RICHARDSONS BOATYARD	US RT 302	WINDHAM	Commercial	6/1/1989	1000		Removed	8/8/1997
97	5 - 1	RICHARDSONS BOATYARD	US RT 302	WINDHAM	Commercial	1/1/1979	275		abandoned in place	7/1/1989
21562	1 - 1	RIDDELL, ERIC & KIM	31 ROLFE RD	WINDHAM	Single Residence	10/1/1969	275		Removed	7/28/2009
16091	1 - 1	ROGERS, ALBERT B SR	424 GRAY RD	WINDHAM	Single Residence	1/1/1969	1000		Removed	8/1/1989
14871	1 - 1	ROGERS, M	32 WHITE POINT RD	WINDHAM	Single Residence	10/1/1969	500		Removed	10/1/1987
14871	2 - 1	ROGERS, M	32 WHITE POINT RD	WINDHAM	Single Residence	10/1/1969	1000		Removed	10/1/1987
19436	1 - 1	ROMANSKI, ED	9 NASH RD	WINDHAM	Single Residence	10/1/1969	1000		Removed	7/21/1993
9970	1 - 1	ROY, RICHARD L JR	5 WARD RD	WINDHAM	Single Residence	5/1/1977	275		Removed	9/12/1997
13349	1 - 1	SAVE A BUCK INC	NORTH WINDHAM SHOPPING CENTER	WINDHAM	Commercial	10/1/1969	1500		Removed	10/1/1994

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
13349	2 - 1	SAVE A BUCK INC	NORTH WINDHAM SHOPPING CENTER	WINDHAM	Commercial	10/1/1969	550		abandoned in place	10/1/1994
14240	1 - 1	SCLAR, STANLEY	LAKESIDE PARK	WINDHAM	Single Residence	1/1/1970	1000		Removed	5/1/1990
14240	2 - 1	SCLAR, STANLEY	LAKESIDE PARK	WINDHAM	Single Residence	10/1/1969	2000		Removed	5/1/1990
8548	1 - 1	SOUTH WINDHAM FIRE STATION	RT 202	WINDHAM	Public Facility	1/1/1960	1000		Removed	11/27/1995
12492	1 - 1	SOUTHARD, RICHARD	270 HIGHLAND CLIFF RD.	WINDHAM	Farm	1/1/1973	500		Removed	9/1/1990
12492	2 - 1	SOUTHARD, RICHARD	270 HIGHLAND CLIFF RD.	WINDHAM	Farm	1/1/1973	275		Removed	9/1/1991
10587	1 - 1	STEARNS, ANDREW B	POPE RD	WINDHAM	Single Residence	7/1/1980	275		Removed	10/1/1990
18503	1 - 1	STEEVES, MARTHA	53 ROUTE 35 TRAILER 16	WINDHAM	Single Residence	10/1/1969	275		Removed	1/1/1993
18902	1 - 1	STEINERT COMPANY INC	668 ROOSEVELT TRAIL	WINDHAM	Commercial	10/1/1969	1000		Removed	10/25/1995
9139	1 - 1	SWETT, ALFRED	HEARTH SIDE ROAD	WINDHAM	Single Residence	6/1/1973	500		Removed	9/1/1989
10437	1 - 1	THAYERS STORE	RIVER RD	WINDHAM	Retail Oil	10/1/1969	1000		Removed	12/1/1988
10437	2 - 1	THAYERS STORE	RIVER RD	WINDHAM	Retail Oil	10/1/1969	3000		Removed	12/1/1988
13350	1 - 1	THE MENS SHOP INC	NORTH WINDHAM SHOPPING CENTER	WINDHAM	Commercial	10/1/1969	1000		Removed	10/1/1994
17775	1 - 1	TIBBETTS, ETTA I	12 STONEWALL RD	WINDHAM	Single Residence	10/1/1969	500		Removed	5/1/1991
11937	1 - 1	ULRICH, EDWARD	1100 ROOSEVELT TRAIL	WINDHAM	Single Residence	10/1/1969	1000		Removed	10/1/1988
19043	1 - 1	UNITED STATES POSTAL SERVICE	57 MAIN STREET	WINDHAM	Federal Facility	1/1/1969	1500		Removed	6/15/1995
10275	1 - 1	VALENTE, HENRY B	FALMOUTH RD	WINDHAM	Single Residence	6/1/1977	1000		Removed	4/1/1994
21687	1 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	800		Active	9/15/1999
21687	2 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	400		Active	9/15/1999
21687	3 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	400		Active	9/15/1999
21687	4 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	7/15/2008	270		Active	7/15/2008

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21687	5 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	5/15/2011	25		Active	5/15/2011
21687	6 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	5/15/2011	325		Active	5/15/2011
15031	1 - 1	WARREN S ELDER & SONS INC	57 RIVER RD	WINDHAM	Commercial	1/1/1971	1000		Removed	8/1/1990
15031	2 - 1	WARREN S ELDER & SONS INC	57 RIVER RD	WINDHAM	Commercial	9/1/1976	2000		Removed	8/1/1990
15497	1 - 1	WATER SYSTEMS INC	RT 302	WINDHAM	Commercial	1/1/1965	275		Removed	4/1/1990
13347	1 - 1	WE AUBUCHON COMPANY INC	NORTH WINDHAM SHOPPING CENTER	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
3404	1 - 1	WILLIS, RALPH B	607 GRAY RD	WINDHAM	Single Residence	6/1/1972	1000		Removed	1/1/1988
10562	1 - 1	WILSON, RONALD	7 RIVER RD	WINDHAM	Single Residence	8/1/1987	1000		Removed	6/4/1996
10562	2 - 1	WILSON, RONALD	7 RIVER RD	WINDHAM	Single Residence	6/3/1996	2000		Active	6/3/1996
21314	1 - 1	WINDAM SHOPPING PLAZA	765 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/1/1969	500		abandoned in place	7/20/2007
4606	1 - 1	WINDHAM BAPTIST CHURCH	RIVER ROAD	WINDHAM	Public Facility	10/1/1983	500		Removed	11/1/1996
21537	1 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	2 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	3 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	4 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	5 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	2000		planned for installation	4/3/2009
21537	6 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	110		planned for installation	4/3/2009
8553	1 - 1	WINDHAM COMMUNITY CENTER	8 SCHOOL RD	WINDHAM	Town "&" School	9/1/1984	4000		Removed	11/6/1998
9014	1 - 1	WINDHAM HIGH SCHOOL	RT 202	WINDHAM	Public Facility	10/1/1969	10000		Removed	11/1/1992
9014	2 - 1	WINDHAM HIGH SCHOOL	RT 202	WINDHAM	Public Facility	10/1/1969	10000		Removed	8/1/1993
17808	1 - 1	WINDHAM HILL UNT CHURCH CHRIST	WINDHAM CENTER ROAD	WINDHAM	Public Facility	10/1/1969	500		Removed	8/1/1989

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
8552	1 - 1	WINDHAM INCINERATOR	RT 302	WINDHAM	Public Facility	6/1/1975	3000		Removed	4/1/1992
8554	1 - 1	WINDHAM LIBRARY	WINDHAM CENTER RD	WINDHAM	Town "&" School	6/1/1972	500		Removed	9/17/1996
8554	2 - 1	WINDHAM LIBRARY	WINDHAM CENTER RD	WINDHAM	Town "&" School	10/16/1996	1000		Active	10/16/1996
1157	1 - 1	WINDHAM MALL	ROUTE 302	WINDHAM	Commercial	8/1/1979	280		Removed	10/1/1994
14899	1 - 1	WINDHAM MILLWORK INC	RIVER RD	WINDHAM	Industrial	10/1/1969	500		Removed	7/1/1987
16094	1 - 1	WINDHAM PRIMARY SCHOOL	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1989	12000		Active	8/1/1989
15769	1 - 1	WINDHAM PUBLIC SAFETY FACILITY	ROUTE 202	WINDHAM	Town "&" School	4/1/1989	2500		Active	4/1/1989
8555	1 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1980	3000		Removed	12/30/1998
8555	2 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1980	5000		Removed	12/30/1998
8555	3 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1980	5000		Removed	12/30/1998
8555	4 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1980	500		Removed	10/16/1998
8555	5 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	9/1/1981	275		Removed	10/16/1998
8555	6 - 1	WINDHAM TOWN OF PUBLIC WORK	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1980	500		Removed	10/16/1998
13348	1 - 1	WINDHAM WOK INC	NORTH WINDHAM SHOPPING CENTER	WINDHAM	Commercial	10/1/1969	550		Removed	10/1/1994
4388	1 - 1	BOND MFG COMPANY	100 MAIN ST	WINDSOR	Commercial	10/1/1969	0		Removed	8/1/1986
4388	2 - 1	BOND MFG COMPANY	100 MAIN ST	WINDSOR	Commercial	10/1/1969	0		Removed	8/1/1986
8989	1 - 1	CAMPBELL, VINCENT L	WEEKS MILL RD	WINDSOR	Single Residence	10/1/1969	275		Removed	10/1/1989
21127	1 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	30000		Active	6/1/2003
21127	2 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	20000		Active	6/1/2003
21127	2 - 2	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	10000		Active	6/1/2003
21127	3 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	12/1/2003	500		Active	12/1/2003

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Active and Out of Service Registered Underground Storage Tanks Including Tank That Have Not Been Properly Abandoned - Sort by Minor Civil Division

Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
12667	3 - 1	SHEEPSCOT BAY BOAT CO	RT 127	GEORGETOWN	Retail Oil	5/1/1995	3500		Active	5/1/1995
12667	3 - 2	SHEEPSCOT BAY BOAT CO	RT 127	GEORGETOWN	Retail Oil	5/1/1995	1500		Active	5/1/1995
15841	1 - 1	CHECKOUT CONVENIENCE	1492 PUSHAW RD	GLENBURN	Retail Oil	7/1/1989	6000		Active	7/1/1989
15841	2 - 1	CHECKOUT CONVENIENCE	1492 PUSHAW RD	GLENBURN	Retail Oil	7/1/1989	6000		Active	7/1/1989
6678	3 - 1	GLENBURN ELEMENTARY SCHOOL	983 HUDSON RD	GLENBURN	Town "&" School	8/6/1998	10000		Active	8/6/1998
14753	4 - 1	LUCKYS LANDING SEAPLANE BASE	35 LUCKY LANDING RD	GLENBURN	Commercial	10/1/1988	2020	Fuel for piston powered aircraft.	Active In Service	10/1/1988
14753	5 - 1	LUCKYS LANDING SEAPLANE BASE	35 LUCKY LANDING RD	GLENBURN	Commercial	10/1/1988	2020	Fuel for piston powered aircraft.	Active In Service	10/1/1988
21089	1 - 1	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	8000		Active	3/9/2006
21089	1 - 2	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	4000		Active	3/9/2006
21089	2 - 1	VILLAGE VARIETY	3225 BROADWAY	GLENBURN	Retail Oil	1/1/1991	500		Active	3/9/2006
9424	5 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	6 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	7 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	7/1/1988	10000		Active	7/1/1988
9424	8 - 1	BIG APPLE	90 MAIN ST	GORHAM	Retail Oil	9/1/1993	1000		Active	9/22/1993
11384	7 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	1/10/1997	8000		Active	12/17/199
11384	8 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	2/22/2005	8000		Active In Service	7/6/2005
11384	9 - 1	CUMBERLAND FARMS INC 1842	137 MAIN ST	GORHAM	Retail Oil	2/22/2005	8000		Active In Service	7/6/2005

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Active and Out of Service Registered Underground Storage Tanks Including Tank That Have Not Been Properly Abandoned - Sort by Minor Civil Division

Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21463	1 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	6000		planned for installation	9/23/2008
21463	2 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	275		planned for installation	9/23/2008
21463	3 - 1	CUSTOM COACH AND LIMOUSINE	19 BARTLETT ROAD	GORHAM	PRIVATE FUELING	9/23/2008	275		planned for installation	9/23/2008
2973	4 - 1	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	11/8/1991	6000		Active	11/8/1991
2973	4 - 2	DODGE OIL CO INC	79 NEW PORTLAND RD	GORHAM	Retail Oil	11/8/1991	6000		Active	11/8/1991
16328	1 - 1	GORHAM HOUSE	50 NEW PORTLAND RD	GORHAM	Commercial	9/1/1989	10000		Active	9/1/1989
13065	2 - 1	GORHAM SAVINGS BANK	64 MAIN ST	GORHAM	Commercial	11/11/1998	2000		Active	11/11/199
15699	1 - 1	GORHAM VILLAGE ELEMENTARY SCH	LINCOLN ST	GORHAM	Town "&" School	6/1/1989	4000		Active	6/1/1989
280	6 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	1000		Active	8/17/1995
280	6 - 2	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	1000		Active	8/17/1995
280	6 - 3	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	8/17/1995	3000		Active	8/17/1995
280	7 - 1	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	11/10/1997	10000		Active	11/10/199
280	7 - 2	JEWETT & NOONAN TRANS	511 MAIN ST	GORHAM	Industrial	11/10/1997	10000		Active	11/10/199
13451	6 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	4/15/2004	10000		Active In Service	6/4/2004
13451	6 - 2	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	4/15/2004	5000		Active In Service	6/4/2004
13451	7 - 1	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	6/4/2004	5000		Active In Service	6/4/2004
13451	7 - 2	LAMPRON LIL MART	688 GRAY RD	GORHAM	Retail Oil	6/4/2004	3000		Active In Service	6/4/2004

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
8811	5 - 1	MDOT MAINTENANCE FACILITY		GORHAM	State Facility	3/1/1990	6000		Active	3/1/1990
21276	1 - 1	NAPPI DISTRIBUTORS	615 MAIN ST	GORHAM	Retail Oil	10/18/2007	6000		Active	10/18/200
21276	1 - 2	NAPPI DISTRIBUTORS	615 MAIN ST	GORHAM	Retail Oil	10/18/2007	6000		Active	10/18/200
13652	5 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	3/30/2001	15000		Active	5/6/2001
13652	5 - 2	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	3/30/2001	5000		Active	5/6/2001
13652	6 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/200
13652	7 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/200
13652	8 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/17/200
13652	9 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/21/1989	12000		Active	12/19/200
13652	10 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	9/30/2008	3000		Active In Service	9/1/2009
13652	11 - 1	NOURIA ENERGY GORHAM BULK	435 OSSIPEE TRAIL	GORHAM	Wholesale Oil	10/20/2008	500		Active In Service	9/1/2009
6401	5 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	10000		Planned for Removal	3/19/2012
6401	6 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
6401	7 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
6401	8 - 1	PETRO KING	20 MOSHER RD	GORHAM	Retail Oil	8/1/1989	4000		Planned for Removal	3/19/2012
276	6 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	12/1/1990	10000		Active In Service	12/1/1990
276	7 - 1	PUBLIC WORKS DEPT	HUSTON RD	GORHAM	Public Facility	12/1/1990	10000		Active In Service	12/1/1990

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
9952	3 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	4/1/1980	10000		Planned for Removal	4/24/2012
9952	4 - 1	RJ GRONDIN & SONS	BARTLETT RD	GORHAM	Commercial	9/28/1997	10000		Active	9/28/1997
21693	1 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	25000		Active In Service	11/11/201
21693	2 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	25000		Active In Service	11/11/201
21693	3 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	15000		Active In Service	11/11/201
21693	4 - 1	SHAW BROTHERS CONSTRUCTION INC	341 MOSHER RD	GORHAM	Commercial	11/11/2011	6000		Active In Service	11/11/201
19401	1 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	12000		Active	9/3/1996
19401	2 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	10000		Active	9/3/1996
19401	2 - 2	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	9/3/1996	2000		Active	9/3/1996
19401	3 - 1	TNT QUICKSTOP LLC	601 MAIN ST	GORHAM	Retail Oil	4/26/2004	12000		Active In Service	12/12/200
21118	1 - 1	WOODS EXCAVATING LLC	21 JACKIES WAY	GORHAM	Commercial	2/3/2006	500		planned for installation	2/3/2006
2843	4 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1983	2000		Active In Service	10/1/1983
2843	5 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	10/1/1983	2000		Active In Service	10/1/1983
2843	6 - 1	COREA LOBSTER COOP INC	191 CROWLEY ISLAND RD	GOULDSBORO	Commercial	2/1/2005	1000		Active In Service	10/1/1983
21197	1 - 1	LIGHTHOUSE LOBSTER CO.	ROUTE 186	GOULDSBORO	Retail Oil	8/29/2006	2000		Active	6/24/2008
629	4 - 1	MC S MARKET PLACE	PO BOX 119 BIRCH HARBOR	GOULDSBORO	Retail Oil	6/1/1987	4000		Active	6/1/1987
629	5 - 1	MC S MARKET PLACE	PO BOX 119 BIRCH HARBOR	GOULDSBORO	Retail Oil	6/1/1987	4000		Active	6/1/1987

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21129	5 - 1	MT BLUE OIL LLC	912 US RT 2 E	WILTON	Wholesale Oil	1/1/1987	550		Active	1/1/1987
3723	8 - 1	WESTERN MT DEVELOPMENT LLC	WELD ST	WILTON	Industrial	9/15/1997	10000		Active	9/15/1997
3136	5 - 1	WILTON PUB WORKS & TOWN OFFICE	WELD ST	WILTON	Town "&" School	10/25/1993	3000		Active	10/25/199
3136	5 - 2	WILTON PUB WORKS & TOWN OFFICE	WELD ST	WILTON	Town "&" School	10/25/1993	3000		Active	10/25/199
11259	2 - 1	WILTON TOWN OF	833 US RT 2 EAST	WILTON	Industrial	7/29/1992	15000		Out of Service	5/27/2004
16246	1 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	6000		Active	9/1/1989
16246	2 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	6000		Active	9/1/1989
16246	3 - 1	BIG APPLE NO WINDHAM 2 1043	RT 302 ROTARY	WINDHAM	Retail Oil	9/1/1989	10000		Active	9/1/1989
4838	8 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	20000		Active	6/30/1993
4838	9 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	9 - 2	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	11 - 1	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	10000		Active	6/30/1993
4838	11 - 2	BIG APPLE NORTH WINDHAM MOBIL	ROUTE 302	WINDHAM	Retail Oil	6/30/1993	2000		Active	6/30/1993
12533	2 - 1	CHURCH JC LATTER DAY SAINTS	RIVER RD	WINDHAM	Town "&" School	11/1/1987	4000		Active	11/1/1987
9073	5 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	12000		Active In Service	6/1/2005
9073	6 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	12000		Active In Service	6/1/2005
9073	7 - 1	CUMBERLAND FARMS INC 1836	RTS 302 & 35	WINDHAM	Retail Oil	6/1/2005	8000		Active In Service	6/1/2005

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21751	1 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	1000		Active	10/18/201
21751	2 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	1000		Active	10/18/201
21751	3 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	500		Active	10/18/201
21751	4 - 1	EIC INC DBA PROMPTO 10-MINUTE OIL CHANGE	662 ROOSEVELT TRAIL	WINDHAM	Retail Oil	10/18/2011	275		Active	10/18/201
12529	4 - 1	FAIRPOINT COMMUNICATIONS	426 GRAY RD	WINDHAM	Commercial	10/18/1996	1000		Active	10/18/199
14273	1 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed SA REQUIRED BUT NOT RECEIVED	10/9/200
14273	2 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed SA REQUIRED BUT NOT RECEIVED	10/9/200
14273	3 - 1	GETTY PROPERTY 28226	663 ROOSEVELT TRAIL	WINDHAM	Retail Oil	7/1/1987	6000		Removed SA REQUIRED BUT NOT RECEIVED	10/9/200
15347	5 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	16000		Active In Service	6/27/200
15347	5 - 2	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	4000		Active In Service	6/27/200
15347	6 - 1	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	9000		Active In Service	6/27/200
15347	6 - 2	LAMPRONS LIL MART	201 TANDBERG TRAIL	WINDHAM	Retail Oil	2/14/2005	3000		Active In Service	6/27/200
11965	7 - 1	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	8000		Active	6/1/1992
11965	7 - 2	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	4000		Active	6/1/1992
11965	7 - 3	LIL MART/NOURIA ENERGY 85028	746 ROOSEVELT TRAIL	WINDHAM	Retail Oil	6/1/1992	3000		Active	6/1/1992
21188	1 - 1	LOWE'S OF NORTH WINDHAM	64 MANCHESTER DR	WINDHAM	Commercial	1/17/2006	1500		Active	1/17/200

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
1989	4 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	4/20/1999	12000		Active	5/20/1999
1989	5 - 1	MAINE CORRECTIONAL CENTER	17 MALLISON FALLS RD	WINDHAM	State Facility	4/20/1989	1000		Active	6/14/2005
8666	4 - 1	MANCHESTER ELEMENTARY SCHOOL	ROUTE 302	WINDHAM	Town "&" School	8/1/1989	2500		Active	8/1/1989
18768	1 - 1	MARCUS WOODS ELDERLY HOUSING	STREET 215 & RTE 115	WINDHAM	Public Facility	5/1/1994	3000		Active	5/3/1994
8550	3 - 1	NORTH WINDHAM FIRE STATION	RT 302	WINDHAM	Town "&" School	10/1/1989	1000		Active	10/1/1989
4133	6 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	8/8/1997	20000		Active	8/8/1997
4133	7 - 1	PUFFIN STOP NORTH WINDHAM	RT 302 & RIVER RD	WINDHAM	Retail Oil	8/8/1997	12000		Active	8/8/1997
21687	1 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	800		Active	9/15/1999
21687	2 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	400		Active	9/15/1999
21687	3 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	9/15/1999	400		Active	9/15/1999
21687	4 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	7/15/2008	270		Active	7/15/2008
21687	5 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	5/15/2011	25		Active	5/15/2011
21687	6 - 1	WALMART SUPERCENTER #2202	30 LANDING ROAD	WINDHAM	Public Facility	5/15/2011	325		Active	5/15/2011
10562	2 - 1	WILSON, RONALD	7 RIVER RD	WINDHAM	Single Residence	6/3/1996	2000		Active	6/3/1996
21537	1 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	2 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009

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Reg #	Tank-Chamber	Facility Name	Street Address	Town (MCD)	Facility Use	Date installed	Volume	Product	Status	Status Date
21537	3 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	4 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	20000		planned for installation	4/3/2009
21537	5 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	2000		planned for installation	4/3/2009
21537	6 - 1	WINDHAM BULK PLANT	34 MANCHESTER DRIVE	WINDHAM	Wholesale Oil	4/3/2009	110		planned for installation	4/3/2009
8554	2 - 1	WINDHAM LIBRARY	WINDHAM CENTER RD	WINDHAM	Town "&" School	10/16/1996	1000		Active	10/16/199
16094	1 - 1	WINDHAM PRIMARY SCHOOL	WINDHAM CENTER RD	WINDHAM	Town "&" School	8/1/1989	12000		Active	8/1/1989
15769	1 - 1	WINDHAM PUBLIC SAFETY FACILITY	ROUTE 202	WINDHAM	Town "&" School	4/1/1989	2500		Active	4/1/1989
21127	1 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	30000		Active	6/1/2003
21127	2 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	20000		Active	6/1/2003
21127	2 - 2	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	6/1/2003	10000		Active	6/1/2003
21127	3 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	12/1/2003	500		Active	12/1/2003
21127	4 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	12/1/2003	500		Active	12/1/2003
21127	5 - 1	CB HASKELL FUEL CO	RT 17	WINDSOR	Wholesale Oil	12/1/2003	500		Active	12/1/2003
8792	8 - 1	HUSSEYS GENERAL STORE	RT 32	WINDSOR	Retail Oil	10/1/1989	8000		Active	10/1/1989
8792	9 - 1	HUSSEYS GENERAL STORE	RT 32	WINDSOR	Retail Oil	10/1/1989	4000		Active	10/1/1989
8792	9 - 2	HUSSEYS GENERAL STORE	RT 32	WINDSOR	Retail Oil	10/1/1989	4000		Active	10/1/1989
8792	10 - 1	HUSSEYS GENERAL STORE	RT 32	WINDSOR	Retail Oil	10/1/1989	550		Active	10/1/1989

MEDEP Spill Report Master List - Gorham

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GLENBURN	B-647-2007	FR	VISTA DRIVE				Unspecified Oil	0.10	G	
GLENBURN	B-651-2007	FR	35 LEAVITT		DEAD RIVER CO	103 SOUTH MAIN STREET	#2 Fuel Oil	0.01	G	
GLENBURN	B-26-2008	FR	22 PARKHURST RD	VIGUE		PARKHURST ROAD	Marsh Sheen	0.00	G	
GLENBURN	B-32-2008	FR	45 GRACE SNOW ROAD		DEAD RIVER CO	103 SOUTH MAIN ST	#2 Fuel Oil	1.00	G	
GLENBURN	B-150-2008	FR	1556 PUSHAW RD	SPAULDING		1556 PUSHAW RD	#1 Fuel Oil - Kerosene	100.00	G	
GLENBURN	B-387-2008	FR	65 CRESSY WAY		C.N.BROWN CO	PO BOX 200	#1 Fuel Oil - Kerosene	1.00	G	
GLENBURN	B-392-2008	FR	1492 PUSHAW ROAD	HUTCHINSON	CHECK OUT CONVIENCE	1492 PUSHAW ROAD	Unleaded Gasoline			
GLENBURN	B-538-2008	FR	16 ROCKY ROAD	ALLEN		16 ROCKY ROAD	#1 Fuel Oil - Kerosene	75.00	G	
GLENBURN	B-551-2008	FR	MARSTON MEADOWS ROAD		REPORT OF OIL SPILLAGE	MARSTON MEADOWS ROAD	None			
GLENBURN	B-202-2009	FR	PUSHAW RD POLE #749-2		BANGOR HYDRO-ELECTRIC CO	PO BOX 932	Transformer Oil	2.00	G	
GLENBURN	B-420-2010	FR	51 AA LANDING ROAD		HAMMOND LUMBER COMPANY	1087 HAMMOND ST	Hydraulic Oil	3.00	G	
GORHAM	P-7-1979	FR	RT. 25		LAVERDIERE'S DRUGS	RT. 25	#2 Fuel Oil	400.00	G	01/08/1979
GORHAM	P-142-1980	FR			MESERVE, RON / C N BROWN		Waste Oil/Used Motor Oil	10.00	G	10/19/1980
GORHAM	P-73-1981	FR	669 LOWER MAIN (RT 25)		T. M. AMOCO STATION	669 LOWER MAIN (RT 25)	Leaded Gasoline	9.00	G	07/27/1981
GORHAM	P-29-1983	FR			HENRY L. HANSONS INC	BARTLETT RD	Unspecified Oil	50.00	G	03/02/1983
GORHAM	P-92-1983	FR	HEATING PLANT		UNIVERSITY OF SOUTHERN MAINE	HEATING PLANT	#6 Fuel Oil	99.00	U	
GORHAM	P-243-1983	FR	1 OAKS LANE		CENTRAL MAINE POWER CO	EDISON DR	Transformer Oil	0.10	G	05/05/1983
GORHAM	P-171-1983	FR		DOWNER			#2 Fuel Oil	3,600.00	G	11/02/1983

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-313-1983	FR			GORHAM HIGH SCHOOL		None	0.00	G	
GORHAM	P-200-1983	FR			CURRIER TRUCKING		Diesel	10.00	G	12/29/1983
GORHAM	P-27-1984	FR			WHITE BROTHERS	WARREN AVE	Lube Oil			02/15/1984
GORHAM	P-299-1984	FR	RT 22		MAINE METAL REFINISHING - SILVEX CO	RT 22	Oil - Other - Specified in Report			
GORHAM	P-299-1984	FR	RT 22		MAINE METAL REFINISHING - SILVEX CO	RT 22	Hazardous Chemical - Specified in report			
GORHAM	P-200-1984	FR			HAMLIN SAND & GRAVEL	FALMOUTH RD	Diesel	50.00	G	
GORHAM	P-263-1984	FR	782? MAIN ST.		C N BROWN BIG APPLE	782 MAIN ST	Unleaded Gasoline	50.00	G	09/29/1984
GORHAM	P-44-1985	FR		JAEGER		BOX 167	Leaded Gasoline	15.00	G	02/13/1985
GORHAM	P-23-1985	FR			UNIVERSITY OF SOUTHERN MAINE	GORHAM CAMPUS	Waste Oil/Used Motor Oil	5.00	G	
GORHAM	P-147-1985	FR			BARROWS GREENHOUSE	314 MAIN ST.	#2 Fuel Oil	25.00	G	
GORHAM	P-96-1985	FR			DIXON BROTHERS	230 MAIN ST.	#1 Fuel Oil - Kerosene	250.00	G	03/25/1985
GORHAM	P-71-1985	FR			MERL'S TRAILER PARK	216 NARRAGANSETT ST.	#1 Fuel Oil - Kerosene	5.00	G	04/10/1985
GORHAM	P-231-1985	FR			UNKNOWN		Pesticide General			09/19/1985
GORHAM	P-259-1985	FR			UNKNOWN		Hazardous Chemical - Unspecified	20.00	G	
GORHAM	P-260-1985	FR		DROWN'S		PORTER ROAD	Waste Oil/Used Motor Oil	20.00	G	11/07/1985
GORHAM	P-278-1985	FR			UNKNOWN		Unleaded Gasoline	5.00	G	11/27/1985

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-284-1985	FR			UNKNOWN		Unleaded Gasoline			12/04/1985
GORHAM	P-77-1986	FR		RUTHERFORD		15 LAWN AVE.	#2 Fuel Oil	20.00	G	03/13/1986
GORHAM	P-184-1986	FR			DIXON BROTHERS	ROUTE 25	#2 Fuel Oil	100.00	G	03/27/1986
GORHAM	P-127-1986	FR			BLOW BROTHERS	OCEAN PARK ROAD	#3 Fuel Oil	45.00	G	04/11/1986
GORHAM	P-212-1986	FR			MCFAULKNER RESIDENCE	MILL ROAD	None			
GORHAM	P-143-1986	FR			CRYSTAL SPRINGS TRAILER PARK	LOT #19	#2 Fuel Oil	25.00	G	04/23/1986
GORHAM	P-156-1986	FR	INDUSTRIAL PARK		HANSON, HENRY CO.	INDUSTRIAL PARK	Unspecified Oil			
GORHAM	P-333-1986	FR			HANSON, HENRY L., INC.	BARTLETT ROAD	Hazardous Chemical - Unspecified	150.00	G	09/15/1986
GORHAM	P-461-1986	FR			HM INVESTIGATION		None			
GORHAM	P-6-1987	FR	230 MAIN ST		DIXON BROTHERS OIL CO	230 MAIN ST.	#2 Fuel Oil	5.00	G	01/12/1987
GORHAM	P-89-1987	FR	MAIN ST (RT. 25)		CN BROWN OIL CO.	MAIN ST.	#2 Fuel Oil	128.00	G	03/12/1987
GORHAM	P-449-1987	FR	237 MAIN ST.		BALLARD OIL-HAWKES, KENNETH	237 MAIN STREET	Gasoline Unspecified			04/14/1987
GORHAM	P-199-1987	FR			MAINE D.O.T. - GORHAM	LIBBY ROAD	#2 Fuel Oil	2.00	G	
GORHAM	P-352-1987	FR	LOT 10		HAZ MAT INVESTIGATION	LOT 10, COUNTRY HILLS	Unknown Substance	0.00	G	08/25/1987
GORHAM	P-515-1987	FR			R.J. GRONDIN		None	0.00	G	09/08/1987
GORHAM	P-330-1987	FR	MAIN ST.		C.N. BROWN OIL CO.	MAIN STREET	Gasoline Unspecified	1.00	G	09/22/1987
GORHAM	P-337-1987	FR	MAIN ST., RT 25		GORHAM MOBIL	MAIN STREET	Gasoline Unspecified		G	
GORHAM	P-429-1987	FR			GIBBS OIL COMPANY		None			

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GORHAM	P-458-1987	FR			DODGE OIL COMPANY	79 NEW MTN. ROAD	#2 Fuel Oil	3.00	G	10/26/1987
GORHAM	P-402-1987	FR	16 SCHOOL ST.		DIXON BROTHERS-GODFREY	16 SCHOOL STREET	#2 Fuel Oil	200.00	G	11/21/1987
GORHAM	P-516-1987	FR		CLARK		RR1 BOX 371	#2 Fuel Oil			
GORHAM	P-519-1987	FR		DOUGLAS		HODGDON RD	None	0.00	G	12/14/1987
GORHAM	P-470-1987	FR	OLD STANDISH RD.	BOYNTON		OLD STANDISH ROAD	#1 Fuel Oil - Kerosene	3.00	G	12/21/1987
GORHAM	P-497-1987	FR			GORHAM AUTO PARTS	RT. 202	Unknown Substance		G	
GORHAM	P-5-1988	FR			DIXON BROTHERS		#2 Fuel Oil	15.00	G	01/11/1988
GORHAM	P-72-1988	FR		CROCKETT		LONGMEADOW DRIVE	Waste Oil/Used Motor Oil	2.00	G	
GORHAM	P-155-1988	FR	MAIN STREET, RT 25		GORHAM GIBBS STATION	MAIN STREET	Gasoline Unspecified	300.00	G	07/20/1988
GORHAM	P-167-1988	FR			CMP		Transformer Oil	1.00	G	08/08/1988
GORHAM	P-222-1988	FR			DODGE OIL CO.	79 NEW PORTLAND ROAD	#2 Fuel Oil	2.00	G	09/01/1988
GORHAM	P-272-1988	FR			TOWN OF GORHAM SCHOOL DEPT.	MORRILL STREET	Diesel	15.00	G	10/31/1988
GORHAM	P-290-1988	FR			BAGLIVO, MS. L.	14 WOODLAWN AVE.	#1 Fuel Oil - Kerosene	5.00	G	11/02/1988
GORHAM	P-472-1988	FR			KNOWLES INDUSTRIAL SERV. CORP.		Hazardous Chemical - Unspecified	5.00	G	12/20/1988
GORHAM	P-21-1989	FR	USM GORHAM CAMPUS		UNIVERSITY OF SO. MAINE	37 COLLEGE AVE	#6 Fuel Oil	50.01	G	01/03/1989
GORHAM	P-96-1989	FR			ME ARMORED CAR & COURIER SVC.	20 BRADLEY DR.	Unleaded Gasoline	20.00	G	02/23/1989
GORHAM	P-113-1989	FR			DIXON BROS. OIL CO.	230 MAIN STREET	#2 Fuel Oil	10.00	G	03/07/1989
GORHAM	P-316-1989	FR		BROWN		35 HIGH ST	Unspecified Oil	2.00	G	05/18/1989

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GORHAM	P-312-1989	FR	NEW PORTLAND RD.		UNKNOWN		Diesel	100.00	G	
GORHAM	P-620-1989	FR	RT 22		FRIENDLY VILLAGE TRAILER PARK	RT 22, HODGDON RD	#2 Fuel Oil			
GORHAM	P-399-1989	FR			GORHAM SCHOOL DEPT.	270 MAIN ST.	#2 Fuel Oil	10.00	G	
GORHAM	P-403-1989	FR	688 GRAY RD. RT 202		LAMPRON'S ENTERPRISES	638 GRAY ROAD (RT 25)	Gasoline Unspecified	10.00	G	
GORHAM	P-428-1989	FR	20 MOSHER RD (RT 237)		HARBOR OIL SUP / SATURLEY	BOX 1238	Gasoline Unspecified	1.00	G	09/01/1988
GORHAM	P-542-1989	FR			DODGE OIL	79 NEW PORTLAND RD	Unspecified Fuel Oil	15.00	G	04/15/1989
GORHAM	P-568-1989	FR			LOUIS MACK COMPANY	299 WARREN AVE.	Diesel	25.00	G	09/13/1989
GORHAM	P-846-1989	FR		SLEEPER		67 EVERGREEN DR	None			09/14/1989
GORHAM	P-635-1989	FR			MAINE TENNIS COURT INC.	MAYALL RD	Non-Hazardous Chemical - Unspecified	55.00	G	10/03/1989
GORHAM	P-737-1989	FR		HAWES		48 CANAL STREET	None	0.00	G	
GORHAM	P-765-1989	FR		BARSTOW		BARSTOW ROAD	None	0.00	G	
GORHAM	P-769-1989	FR	153 SEBEGO LAKE RD.		DIXON OIL / BRASIER T.	153 SEBEGO LK. RD	#1 Fuel Oil - Kerosene	6.00	G	11/17/1989
GORHAM	P-843-1989	FR		REESE		GORHAM IND. PARK	Waste Oil/Used Motor Oil			01/27/1989
GORHAM	P-835-1989	FR		THORNE		RT.25/FARRINGTON RD.	None	0.00	G	
GORHAM	P-107-1990	FR		TOWLE		FLAGGY MEADOW ROAD	#2 Fuel Oil	0.00	G	02/15/1990
GORHAM	P-188-1990	FR			CMP	FLAGGY MEADOW ROAD	Transformer Oil			03/31/1990
GORHAM	P-205-1990	FR			M.D.O.T./M.T.S.	STATION 26	Diesel	400.00	G	03/27/1990
GORHAM	P-732-1990	FR		JOHNSON		102 CEDAR CIRCLE	None			04/05/1990
GORHAM	P-281-1990	FR	RT. 25		GETTY OIL COMPANY	27 MAIN ST.	Gasoline Unspecified	8.00	G	05/03/1990

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GORHAM	P-286-1990	FR		COWSERT		126 HEMLOCK DRIVE	Waste Oil/Used Motor Oil	1.00	G	
GORHAM	P-297-1990	FR			CMP TRANFORMER POLE #16	STATE STREET	Transformer Oil	20.00	G	05/14/1990
GORHAM	P-471-1990	FR	2 NARRAGANSETT ST.		LUCAS TREE EXPERTS	P.O. BOX 958	Hydraulic Oil	30.00	G	07/13/1990
GORHAM	P-487-1990	FR	RT. 237		RHODESAWAY GEN. STORE	RT. 237	Gasoline Unspecified	0.00	G	
GORHAM	P-668-1990	FR		LIBBY		RT 202/HARDING RD.	Algae Blooms/Plant Pollen Sheens			08/02/1990
GORHAM	P-508-1990	FR	511 MAIN ST. (RT. 25)		SHAW BROS.	511 MAIN ST.	Waste Oil/Used Motor Oil			
GORHAM	P-696-1990	FR		CHAREST		246 MAIN STREET	None	0.00	G	08/08/1990
GORHAM	P-575-1990	FR	GORHAM IND. PARK		THE IRWIN CO.	GORHAM IND. PARK	Unspecified Oil	30.00	G	09/10/1990
GORHAM	P-797-1990	FR		BOOTHBY		8 ELM ST.	Gasoline Unspecified	100.00	G	
GORHAM	P-870-1990	FR	RT. 237 & 202		DEAD RIVER OIL CO.	HGY SPILL RT 25-202	None	25.00	G	12/12/1990
GORHAM	P-886-1990	FR			VEHICLE ACCIDENT	NEW PORTLAND RD.	Unleaded Gasoline	10.00	G	12/19/1990
GORHAM	P-911-1990	FR	HUSTON RD.		GORHAM PUBLIC WORKS DEPT.	HUSTON RD.	Diesel	30.00	G	
GORHAM	P-77-1991	FR	230 MAIN ST.		DIXON BROS. OIL CO.	230 MAIN ST.	#1 Fuel Oil - Kerosene			01/17/1991
GORHAM	P-92-1991	FR		BOWLER		160 MOSHER ROAD	#2 Fuel Oil	150.00	G	02/18/1991
GORHAM	P-257-1991	FR	688 GRAY RD. (RT. 202 & 237)		LAMPRON'S ENTERPRISES (ENERGY) INC.	435 OSSIPEE TRAIL (RT. 25)	Gasoline Unspecified	20.00	G	
GORHAM	P-276-1991	FR	ROUTE 25		VEHICLE ACCIDENT		Gasoline Unspecified	20.00	G	05/17/1991
GORHAM	P-792-1991	FR	RR 5, BOX 418	SPRAGUE		RR 5, BOX 418	Waste Oil/Used Motor Oil	3.00	G	05/22/1991
GORHAM	P-291-1991	FR		HILLOCK		HOLMES RD.	Diesel	5.00	G	05/15/1991

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GORHAM	P-310-1991	FR			GORHAM INTERNATIONAL, INC.	P.O. BOX 8	Hazardous Chemical - Unspecified	70.00	G	06/10/1991
GORHAM	P-442-1991	FR	SHAW'S MILLS RD. AND RT 25		MYSTERY	SHAW'S MILLS ROAD	Asphalt	4.00	G	
GORHAM	P-459-1991	FR			PORTLAND WATER DISTRICT	225 DOUGLASS STREET	Corrosive	75.00	G	08/13/1991
GORHAM	P-528-1991	FR	270 MAIN STREET		TOWN OF GORHAM	270 MAIN STREET	None			09/09/1991
GORHAM	P-650-1991	FR	ROUTE 22		PORTLAND STEEL COMPANY	ROUTE 22	Hazardous Chemical - Unspecified	5.00	G	11/02/1991
GORHAM	P-675-1991	FR			DODGE OIL CO.	NEW PORTLAND RD	Diesel			
GORHAM	P-712-1991	FR	17 LOWER MAPLE ST.		ROY, THOMAS & DEBORAH	17 LOWER MAPLE ST.	#1 Fuel Oil - Kerosene	75.99	G	
GORHAM	P-772-1991	FR			CASCO NORTHERN BANK	80 MAIN ST. (RT 25)	#2 Fuel Oil			
GORHAM	P-20-1992	FR	MORRILL AVE.		DOWNEAST ENERGY	172 MAIN ST.	#2 Fuel Oil	10.00	G	01/04/1992
GORHAM	P-93-1992	FR			LUCAS TREE COMPANY	636 RIVERSIDE STREET	Hydraulic Oil	2.00	G	02/10/1992
GORHAM	P-137-1992	FR			LUCAS TREE CO.	636 RIVERSIDE ST.	Hydraulic Oil	5.00	G	02/28/1992
GORHAM	P-252-1992	FR		LUCAS		SHORE RD.	Hydraulic Oil	40.00	G	04/23/1992
GORHAM	P-262-1992	FR			AUTO ACCIDENT	GORHAM & MIDDLEJAM	Gasoline Unspecified	20.00	G	04/26/1992
GORHAM	P-342-1992	FR			LECOURS, MARY JANE	59 MCLULLAN ROAD	#2 Fuel Oil	70.00	G	06/02/1992
GORHAM	P-733-1992	FR	MCLELLAN RD.	VENA		McLELLAN RD.	None			09/15/1992
GORHAM	P-660-1992	FR	639 ROUTE 25		POLLUTION CONTROL SVCS.	#639 RT. 25	Waste Oil/Used Motor Oil	10.00	G	
GORHAM	P-718-1992	FR	RTE. 25 OSSIPPEE TRAIL APT.#2		WILLIAMS OIL CO.		#2 Fuel Oil	200.00	G	11/08/1992
GORHAM	P-722-1992	FR	75 GARDEN AVE.		WOODBURY RESIDENCE	75 GARDEN AVE.	#2 Fuel Oil	0.50	G	11/21/1992
GORHAM	P-761-1992	FR	519 FORT HILL RD.		PHINNEY LUMBER CO	519 FORT HILL ROAD	Gasoline Unspecified	25.00	G	

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GORHAM	P-794-1992	FR	107 MAIN ST		C.N. BROWN CO.	PO BOX 200	Unspecified Oil		G	12/22/1992
GORHAM	P-51-1993	FR			MARTIN RESIDENCE	7 PREBLE ST	#2 Fuel Oil			
GORHAM	P-268-1993	FR	BARTLET ST.		R.J. GRONDIN & SON'S	BARTLET ST.	Unleaded Gasoline			
GORHAM	P-305-1993	FR			PORTLAND PUMP CO/C N BROWN	RT 114	Gasoline Unspecified			05/11/1993
GORHAM	P-686-1993	FR	392 MOSNER RD/RT 237		LACHANCE BRICK CO.	392 MOSNER RD/RT 237	#4 Fuel Oil	200.00	G	06/11/1993
GORHAM	P-417-1993	FR	LITTLE X PRESUMPSCOT R.		NONE		Unspecified Oil	0.00	G	
GORHAM	P-503-1993	FR			CURRIER TRUCKING, INC.	459 MAIN ST	Diesel	1.50	G	08/19/1993
GORHAM	P-560-1993	FR	688 GRAY RD. RT 202		LAMPRON OIL (ENERGY INC.)	435 OSSIPPEE TR	Unleaded Gasoline	4.09	G	09/08/1993
GORHAM	P-640-1993	FR	RT 237		PORTLAND WATER DISTRICT	225 DOUGLAS ST., PO BOX 3553	Corrosive	600.00	G	10/16/1993
GORHAM	P-661-1993	FR	14 WHITE ROCK DR.	ANDREWS		14 WHITE ROCK DR.	#1 Fuel Oil - Kerosene	30.00	G	
GORHAM	P-658-1993	FR	SOUTH STREET & DAYE ROAD	SCHOLL		15 OLD NECK ROAD	Unleaded Gasoline	10.00	G	10/21/1993
GORHAM	P-728-1993	FR	ROUTE 237	GODWIN		196 SEBAGO LAKE RD.	None			
GORHAM	P-797-1993	FR	FORMER REECE PROPERTY		SEBAGO, INC	HUTCHERSON DRIVE	Unspecified Oil	0.00	G	
GORHAM	P-4-1994	FR	RT 25 & BARTLETT RD.		KENNEBUNK FLORIST	33 WESTERN AVE.	Gasoline Unspecified	200.00	G	
GORHAM	P-144-1994	FR	MAIN STREET		GORHAM SCHOOL DEPARTMENT		Diesel	20.00	G	03/15/1994
GORHAM	P-180-1994	FR	158 MOSHER ROAD	DEGRIESHE		158 MOSHER ROAD	#2 Fuel Oil	200.00	G	04/05/1994
GORHAM	P-256-1994	FR	180 NARRAGANSET ST., TRAILER 1	ANDREA			#1 Fuel Oil - Kerosene	20.00	G	
GORHAM	P-427-1994	FR	230 MAIN STREET		DIXON BROTHERS OIL	230 MAIN STREET	#2 Fuel Oil			
GORHAM	P-433-1994	FR	STATE ST (RT 25) TO N.PTLD. RD		MYSTERY SPILLER		Hydraulic Oil	20.00	G	07/11/1994

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GORHAM	P-470-1994	FR	FOOT HILL RD		UNKNOWN	FOOT HILL RD	Unknown Substance		G	07/30/1994
GORHAM	P-492-1994	FR	CANTERBURY PINES		MYSTERY	CANTERBURY	Hazardous Chemical - Unspecified	100.00	G	08/06/1994
GORHAM	P-529-1994	FR	RT. 25		MYSTERY		None	0.00	P	08/12/1994
GORHAM	P-553-1994	FR	137 MAIN ST. (RT. 25)		CUMBERLAND FARMS, INC.	777 DEDHAM ST.	Gasoline Unspecified	50.00	G	
GORHAM	P-632-1994	FR	118 MAIN ST. (RT. 25)		WEBBER OIL CO.	P. O. BOX 929	Gasoline Unspecified	50.00	G	
GORHAM	P-701-1994	FR			BARROWS GREEN HOUSE	312 MAIN ST	#2 Fuel Oil		G	
GORHAM	P-30-1995	FR	SCHOOL STREET		MYSTERY AUTO SPILL		Unleaded Gasoline	1.00	G	01/13/1995
GORHAM	P-28-1995	FR			NARRAGANSET TRAILER PARK	180 NARRAGANSET ST.	#1 Fuel Oil - Kerosene	0.10	G	01/19/1995
GORHAM	P-32-1995	FR	38 DEERING ROAD		DOWMAN, PHILIP & PATRICIA	38 DEERING ROAD	#1 Fuel Oil - Kerosene	100.00	G	01/21/1995
GORHAM	P-43-1995	FR	NEW PORTLAND ROAD		KNOWLES INDUSTRIAL SERVICES INC.	NEW PORTLAND ROAD	Diesel		G	
GORHAM	P-59-1995	FR	129 OSSIPEE TRAIL		WILLIAMS OIL	ROUTE 237	#2 Fuel Oil	2.00	G	01/31/1995
GORHAM	P-195-1995	FR			HAWK TRANSPORTATIO N SERVICES	P. O. BOX 4967	#6 Fuel Oil		G	04/03/1995
GORHAM	P-186-1995	FR	27 WATER STREET	JEFF		NORTH OAKS DRIVE	#1 Fuel Oil - Kerosene	10.00	G	
GORHAM	P-243-1995	FR	GORHAM CAMPUS, WOOD ROAD		UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVENUE	Unspecified Oil	100.00	G	04/21/1995
GORHAM	P-223-1995	FR	41 MORRILL AVENUE		GORHAM HIGH SCHOOL	41 MORRILL AVENUE	#2 Fuel Oil	10.00	G	04/25/1995
GORHAM	P-467-1995	FR	ROUTE 22 AND 114		ROBERT'S WELDING MACHINE SHOP	COUNTY ROAD	Hydraulic Oil	1.00	G	

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GORHAM	P-543-1995	FR	29 SHCOOL STREET		UNITED METHODIST CHURCH	29 SCHOOL ST.	None	0.00	G	
GORHAM	P-623-1995	FR	276 OAK CIR FRIENDLY VILLAGE	SHIPLETT		276 OAK CIR FRIENDLY VILLAGE	#1 Fuel Oil - Kerosene	200.00	G	10/12/1995
GORHAM	P-641-1995	FR	179 GRAY RD	SHANHOLTZ		179 GRAY RD	#2 Fuel Oil	5.00	G	10/17/1995
GORHAM	P-703-1995	FR	POLE 38 AND 39		CENTRAL MAINE POWER COMPANY	EDISON DRIVE	Transformer Oil	15.00	G	11/15/1995
GORHAM	P-704-1995	FR	BROOK ON SIDE OF STREET		MYSTERY - CAR ACCIDENT		Lube Oil	0.50	G	11/15/1995
GORHAM	P-53-1996	FR	COUNTY RD	GRAY		COUNTY RD	#1 Fuel Oil - Kerosene	49.00	G	01/23/1996
GORHAM	P-116-1996	FR	342 MAIN STREET, RT. 25	WARD		346 MAIN STREET, RT. 25	#2 Fuel Oil	15.00	G	02/12/1996
GORHAM	P-134-1996	FR	NARRAGANSETT ROAD		HANNAFORD BROS. CO.	145 PLEASANT HILL ROAD	Waste Oil/Used Motor Oil	2.00	G	
GORHAM	P-141-1996	FR	101 SEBAGO LAKE RD. ROUTE 237		DIXON BROTHERS OIL @ DAIGLE FARM	230 MAIN STREET	#2 Fuel Oil	70.00	G	02/15/1996
GORHAM	P-845-1996	FR	ROUTE 25		DIXON BROTHERS FUEL	230 MAIN STREET	#1 Fuel Oil - Kerosene	5.00	G	05/01/1996
GORHAM	P-792-1996	FR	25 MECHANIC FALLS		F.S. PLUMMER	25 MECHANIC STREET	Unleaded Gasoline		U	
GORHAM	P-431-1996	FR	50 FLAGGY MEADOW RD	BRINKMAN		50 FLAGGY MEADOW RD	None	0.00	G	
GORHAM	P-549-1996	FR	84 JOHNSON RD		ROODES, JOHN MICHAEL	ADDRESS UNKNOWN	#2 Fuel Oil	25.00	G	
GORHAM	P-648-1996	FR	200 FLAGGY MEADOW RD	ROHDE		200 FLAGGY MEADOW RD	#2 Fuel Oil	75.99	G	10/22/1996
GORHAM	P-788-1996	FR	84 JOHNSON RD		SLC ENTERPRISES, INC.	P. O. BOX 8754	None	0.00	G	
GORHAM	P-793-1996	FR	322 WOODRIDGE DRIVE	BRACATO		322 WOODRIDGE DRIVE	Unspecified Oil		G	12/09/1996
GORHAM	P-508-1996	FR	137 MAIN ST. (RT. 25)		CUMBERLAND FARMS INC	777 DEDHAM ST.	Unleaded Gasoline		U	

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GORHAM	P-801-1996	FR	19 CROCKET RD.	ROSS		19 CROCKET RD.	#1 Fuel Oil - Kerosene	25.00	G	12/13/1996
GORHAM	P-823-1996	FR	180-A FLAGGY MEADOW ROAD		LOVITT RESIDENSE	180-A FLAGGY MEADOW ROAD	#2 Fuel Oil	50.00	G	12/27/1996
GORHAM	P-19-1997	FR	137 MAIN ST. (RT. 25)		CUMBERLAND FARMS, INC.	777 DEDHAM STREET	Unleaded Gasoline			
GORHAM	P-34-1997	FR	20 MOSHER RD. (RT. 237)		LAMPRON'S ENTERPRISE OIL	ROUTE 25	#2 Fuel Oil	100.00	G	01/16/1997
GORHAM	P-55-1997	FR	393 OSSIPEE TRAIL		STJ, INC.	393 OSSIPEE TRAIL	Gasoline Unspecified		G	01/29/1997
GORHAM	P-127-1997	FR	124 OSSIPEE TRAIL / RT25		MYSTERY	124 OSSIPEE TRAIL / RT25	Hazardous Chemical - Specified in report	0.00	G	
GORHAM	P-220-1997	FR	26 MOSHER RD.		WILLIAMS OIL CO.	26 MOSHER RD.	#1 Fuel Oil - Kerosene		G	
GORHAM	P-289-1997	FR	121 PLUMMER RD		ROYAL OIL CO.	2066 WEST BROADWAY	#2 Fuel Oil	2.00	G	05/22/1997
GORHAM	P-294-1997	FR			MYSTERY		Gasoline Unspecified		U	
GORHAM	P-469-1997	FR	6 HUTCHINSON DR.		HILL'LOMA INC.	6 HUTCHINSON DR.	Hazardous Chemical - Specified in report		P	09/01/1997
GORHAM	P-693-1997	FR	132 HEMLOCK DRIVE		LUNT, ROLAND & STEPHANIE	132 HEMLOCK DRIVE	None	0.00	G	
GORHAM	P-660-1997	FR	11 BARTLETT RD.		R J GRONDIN & SONS	11 BARTLETT RD.	Unleaded Gasoline		G	
GORHAM	P-626-1997	FR	24 SCHOOL STREET		IOTA NU (FRATERNITY) HOUSE CORP.	MARK POULIN FINAN. SVCS.	#2 Fuel Oil	200.00	G	
GORHAM	P-646-1997	FR	511 MAIN ST. (RT. 25)		SHAW BROTHERS CONST., INC.	PO BOX 69	Diesel	0.00	G	
GORHAM	P-645-1997	FR	118 MAIN ST. (RT. 25)		WEBBER OIL CO.	PO BOX 929	None	0.00	G	
GORHAM	P-648-1997	FR	669 LOWER MAIN & BARTLET, RT 25		GETTY REALTY CORP.	27 REAR MAIN ST.	Gasoline Unspecified	99.00	G	
GORHAM	P-20-1998	FR	16 FINN PARKER ROAD	CHASE		16 FINN PARKER ROAD	#2 Fuel Oil	5.00	G	

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GORHAM	P-172-1998	FR	LIBBY ROAD		DEPARTMENT OF TRANSPORTATIO N	LIBBY ROAD	#2 Fuel Oil		U	
GORHAM	P-204-1998	FR	90 MAIN ST		C N BROWN	PO BOX 200	Gasoline Unspecified			
GORHAM	P-207-1998	FR	90 MAIN ST.		C.N. BROWN	PO BOX 200	None			
GORHAM	P-399-1998	FR	17 FARRINGTON ROAD	BREWER		17 FARRINGTON ROAD	Gasoline Unspecified	2.00	G	08/24/1998
GORHAM	P-401-1998	FR	FARRINGTON ROAD		CENTRAL MAINE POWER	83 EDISON DRIVE	Transformer Oil	20.00	G	08/24/1998
GORHAM	P-423-1998	FR	JOHNSON ROAD		RYDER TRUCK & H P HOOD	131 RAND RD.	Diesel	20.00	G	09/14/1998
GORHAM	P-429-1998	FR	392 MOSHER RD., RT. 27		LACHANCE BRICK CO.	392 MOSHER ROAD	#4 Fuel Oil	9.00	G	
GORHAM	P-477-1998	FR	25 MECHANIC ST		UNITED STATES POSTAL SERVICE	FACILITY SERVICE CTR	Gasoline Unspecified			10/07/1998
GORHAM	P-477-1998	FR	25 MECHANIC ST		UNITED STATES POSTAL SERVICE	FACILITY SERVICE CTR	Diesel			10/07/1998
GORHAM	P-495-1998	FR	201 NEW PORTLAND ROAD		WYMANS AUTOBODY	201 NEW PORTLAND ROAD	Hazardous Chemical - Specified in report		U	
GORHAM	P-506-1998	FR	MCCLELLEN ROAD		GORHAM COUNTRY CLUB	MCCLELLEN ROAD	None	0.00	G	
GORHAM	P-605-1998	FR	P.O. BOX 517	GILLIS		P.O. BOX 517	Gasoline Unspecified		G	
GORHAM	P-604-1998	FR	249 NORTH GORHAM ROAD	LONBARD		249 NORTH GORHAM ROAD	Gasoline Unspecified		G	
GORHAM	P-570-1998	FR	24 BEAR RUN		MYSTERY		Gasoline Unspecified			
GORHAM	P-635-1998	FR	74 MCLELLAN RD.		MYSTERY		Unspecified Oil		U	
GORHAM	P-8-1999	FR	201 GORHAM RD., RT. 114		AUTO ACCIDENT, RP UNKNOWN		Unspecified Oil	1.00	G	01/05/1999
GORHAM	P-30-1999	FR	38 MAHLON AVE.		RESIDENTIAL PROPERTY	38 MAHLON AVE.	#2 Fuel Oil	5.00	G	01/14/1999
GORHAM	P-18-1999	FR	10 JESSICA LANE	KALLIS		10 JESSICA LANE	#2 Fuel Oil	1.00	G	01/18/1999

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-182-1999	FR	ROUTE 22		CAR ACCIDENT	ROUTE 22	Transmission Oil		G	03/15/1999
GORHAM	P-205-1999	FR	20 MOSHER RD - RT 202		LAMPRON ENERGY OIL CO	435 OSSIPEE TRAIL	Diesel		U	
GORHAM	P-227-1999	FR	230 MAIN ST., RT. 25		DIXON BROS OIL CO.	230 MAIN ST.	#2 Fuel Oil	9.00	G	
GORHAM	P-259-1999	FR	52 SHAWS MILL ROAD	CRIMMIN		52 SHAWS MILL ROAD	#2 Fuel Oil	0.99	G	
GORHAM	P-236-1999	FR	ROUTE 202		PINKHAM & GREER	170 US ROUTE 1	Unleaded Gasoline			
GORHAM	P-382-1999	FR	274 COUNTY RD., RT. 22	BUMP		274 COUNTY RD.	Pesticide General	0.05	P	06/11/1999
GORHAM	P-572-1999	FR	FARRINGTON ST.		CENTRAL MAINE POWER	EDISON DRIVE	Transformer Oil	2.00	G	
GORHAM	P-501-1999	FR	RT. 25 & WOOD RD.		COMMERCIAL TRUCK	UNKNOWN	Diesel	40.00	G	07/14/1999
GORHAM	P-877-1999	FR	MAIN STREET		CENTRAL MAINE POWER	83 EDISON DRIVE	Transformer Oil	0.20	G	07/18/1999
GORHAM	P-539-1999	FR	344 MOSHER RD (RT. 237)	HOULY		344 MOSHER RD (RT. 237)	#2 Fuel Oil	0.99	G	07/17/1999
GORHAM	P-544-1999	FR	202 MAPLE DRIVE		FRIENDLY VILLAGE TRAILER PARK	HODGDON ROAD	Unspecified Fuel Oil	0.99	G	
GORHAM	P-772-1999	FR	137 MAIN ST. (RT. 25)		CUMBERLAND FARMS INC. & AUTO		Unleaded Gasoline	3.00	G	08/05/1999
GORHAM	P-568-1999	FR	184 SOUTH ST				None			08/15/1999
GORHAM	P-662-1999	FR	263 LIBBY AVENUE	HAMBLIN		263 LIBBY AVENUE	#2 Fuel Oil	3.00	G	
GORHAM	P-819-1999	FR	RT 25 - 115 MAIN ST		C N BROWN	PO BOX 200	Unleaded Gasoline	1.00	G	11/27/1999
GORHAM	P-39-2000	FR	19 BURNHAM RD		LAMPRONS OIL CO		Diesel	3.00	G	01/17/2000
GORHAM	P-61-2000	FR	19-A DANIELS STREET	DANIE		19-B DANIELS STREET	#1 Fuel Oil - Kerosene	35.00	G	01/28/2000
GORHAM	P-169-2000	FR	STRAW ROAD		MYSTERY		Diesel	25.00	G	
GORHAM	P-836-2000	FR	JONATHAN ST.		CMP	EDISON DR.	Transformer Oil	1.00	G	01/05/2000

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GORHAM	P-331-2000	FR	PLUMMER RD		LEAVITT EARTHWORKS CO INC	PLUMMER RD	Diesel	10.00	G	05/25/2000
GORHAM	P-328-2000	FR	15 BALSAM LANE	DAIGLE		15 BALSAM LANE	#2 Fuel Oil	20.00	G	06/01/2000
GORHAM	P-423-2000	FR	50 WHIPPLE ROAD	REALI		47 NEW BROWN COVE ROAD	#2 Fuel Oil	100.00	G	
GORHAM	P-417-2000	FR	601 MAIN ST.	COMMON		601 MAIN ST.	Unleaded Gasoline	24.00	G	07/14/2000
GORHAM	P-621-2000	FR	27 PRIMROSE STREET	PRICE		27 PRIMROSE STREET	#2 Fuel Oil	0.99	G	
GORHAM	P-624-2000	FR	HODGTON RD		VEHICLE FIRE	HODGTON RD	Gasoline Unspecified	0.99	G	09/29/2000
GORHAM	P-637-2000	FR	298 NEW PORTLAND ROAD		TRAILERS DIVERSIFIED	298 NEW PORTLAND ROAD	Diesel	100.00	G	10/19/2000
GORHAM	P-840-2000	FR	USM GORHAM CAMPUS		UNIVERSITY OF SOUTHERN MAINE	GORHAM CAMPUS	#6 Fuel Oil	1.00	G	12/29/2000
GORHAM	P-678-2001	FR	435 OSSIPEE TRAIL - RT 302		LAMPRON OIL COMPANY	880 COUNTY ROAD	#2 Fuel Oil	0.03	G	02/22/2001
GORHAM	P-148-2001	FR	115 MAIN ST - RT 25		C N BROWN OIL CO	MAIN ST EXT	Unleaded Gasoline	6.00	G	03/07/2001
GORHAM	P-193-2001	FR	SOUTH ST	RICHARDSON		530 STEVENS AVE	Unleaded Gasoline	10.00	G	03/12/2001
GORHAM	P-243-2001	FR	270 MAIN ST		GORHAM, TOWN OF	270 MAIN ST	Hydraulic Oil	30.00	G	03/29/2001
GORHAM	P-249-2001	FR	435 OSSIPEE TR - RT 25		LAMPRON ENERGY OIL CO	435 OSSIPEE TRAIL	Unleaded Gasoline	29.00	G	
GORHAM	P-303-2001	FR	637 MAIN ST - RT 25	HASKELL		189 BOUNDARY RD	Gasoline Unspecified	300.00	G	
GORHAM	P-323-2001	FR	176 NARAGANSETT ST - RT 202		LAMPRON ENERGY OIL CO	RT 25 - 435 OSSIPEE TRAIL	Diesel	20.00	G	04/23/2001
GORHAM	P-476-2001	FR	23 GLORIA ST	JORDAN		23 GLORIA ST	#1 Fuel Oil - Kerosene	2.00	G	
GORHAM	P-528-2001	FR	SEBAGO LAKE RD				Gasoline Unspecified	0.20	G	07/05/2001
GORHAM	P-595-2001	FR	FLAGGY MEADOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	7.00	G	07/29/2001

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GORHAM	P-602-2001	FR	LONGFELLOW RD & LOWELL RD		TOP DOG ENTERPRISES INC	14 HAGGETTS POND RD	Hydraulic Oil	5.00	G	08/02/2001
GORHAM	P-697-2001	FR	688 GRAY RD., RT. 202		LAMPRON ENERGY CO.	435 OSSIPEE TRAIL	None	0.00	G	08/29/2001
GORHAM	P-720-2001	FR	MERTIES TRAILER PARK - 180 NARAGANSETT	ORDWAY		MERTIES TRAILER PARK	#2 Fuel Oil	2.00	G	09/07/2001
GORHAM	P-735-2001	FR	42 WHIPPLE RD	REALI		42 WHIPPLE RD	None			
GORHAM	P-889-2001	FR	115 HEMLOCK DRIVE		CENTRAL MAINE POWER	83 EDISON DRIVE	Transformer Oil	5.00	G	10/18/2001
GORHAM	P-969-2001	FR	347 MAIN ST.		DOWNEAST ENERGY	34 MANCHESTER DRIVE	#1 Fuel Oil - Kerosene	0.50	G	11/27/2001
GORHAM	P-1087-2001	FR	28 WHIPPLE RD	FRASER		28 WHIPPLE RD	Gasoline Unspecified	0.99	G	
GORHAM	P-1031-2001	FR	184 BRACKETT RD			184 BRACKETT RD	Hydraulic Oil	5.00	G	12/21/2001
GORHAM	P-33-2002	FR	65 SOUTH ST	VALLIERE		65 SOUTH ST	#2 Fuel Oil	5.00	G	01/11/2002
GORHAM	P-71-2002	FR	10 WILLOW CIRLCE	BROWN		10 WILLOW CIRCLE	#1 Fuel Oil - Kerosene	100.00	G	
GORHAM	P-76-2002	FR	291 NEW PORTLAND ROAD		INDUSTRIAL CONCRETE SERVICES	291 NEW PORTLAND ROAD	Hazardous Chemical - Specified in report	0.00	G	01/30/2002
GORHAM	P-114-2002	FR	347 MAIN ST		UNKNOWN VEHICLE		Waste Oil/Used Motor Oil	0.75	G	02/23/2002
GORHAM	P-133-2002	FR	RT 25		WEBB CONSTRUCTION	22 WINSLOW RD	Diesel	15.00	G	02/28/2002
GORHAM	P-147-2002	FR	643 MAIN ST		NORTHEASTERN AUTOMATIC DOOR CO	643 MAIN ST	None			
GORHAM	P-1049-2002	FR	RT 202 & LITTLE RIVER DR		WEBBER ENERGY FUELS	27 MAIN ST	Waste Oil/Used Motor Oil			03/01/2002
GORHAM	P-144-2002	FR	363 SEBAGO LAKE RD	GAMMON	GAMMONS AUTO REPAIR	363 SEBAGO LAKE RD	Waste Oil/Used Motor Oil	150.00	G	03/01/2002
GORHAM	P-144-2002	FR	363 SEBAGO LAKE RD	GAMMON	GAMMONS AUTO REPAIR	363 SEBAGO LAKE RD	Unleaded Gasoline	10.00	G	03/01/2002

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GORHAM	P-144-2002	FR	363 SEBAGO LAKE RD	GAMMON	GAMMONS AUTO REPAIR	363 SEBAGO LAKE RD	Corrosive	7.00	G	03/01/2002
GORHAM	P-144-2002	FR	363 SEBAGO LAKE RD	GAMMON	GAMMONS AUTO REPAIR	363 SEBAGO LAKE RD	#2 Fuel Oil	100.00	G	03/01/2002
GORHAM	P-178-2002	FR	RT 25 & 652 MAIN ST				Waste Oil/Used Motor Oil	2.00	G	03/11/2002
GORHAM	P-178-2002	FR	RT 25 & 652 MAIN ST				Anti-freeze	5.00	G	03/11/2002
GORHAM	P-187-2002	FR	720 GRAY RD	SICLANO		720 GRAY RD	#2 Fuel Oil	20.00	G	03/13/2002
GORHAM	P-149-2002	FR	230 MAIN ST - RT 25		DIXON FAMILY ENTERPRISES	39 THE LANE	Unspecified Oil	25.00	G	
GORHAM	P-149-2002	FR	230 MAIN ST - RT 25		DIXON FAMILY ENTERPRISES	39 THE LANE	#1 Fuel Oil - Kerosene	200.00	G	
GORHAM	P-149-2002	FR	230 MAIN ST - RT 25		DIXON FAMILY ENTERPRISES	39 THE LANE	#2 Fuel Oil	400.00	G	
GORHAM	P-149-2002	FR	230 MAIN ST - RT 25		DIXON FAMILY ENTERPRISES	39 THE LANE	Diesel	100.00	G	
GORHAM	P-522-2002	FR	673 MAIN ST		LAKE REGION FURITURE	673 MAIN ST	Diesel			
GORHAM	P-221-2002	FR	309 NEW PORLAND RD		VEHICLE ACCIDENT		Anti-freeze	0.50	G	03/20/2002
GORHAM	P-212-2002	FR	47 COUNTY RD	NIEDERMEYER	ANIMAL HOSPITAL OF SOUTH GORHAM	47 COUNTY RD	#2 Fuel Oil	50.00	G	03/22/2002
GORHAM	P-277-2002	FR	FINNEY RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.25	G	04/17/2002
GORHAM	P-349-2002	FR	37 COLLEGE AVE		UNIVERSITY OF MAINE	107 MCUNE AVE	#4 Fuel Oil			04/04/1983
GORHAM	P-349-2002	FR	37 COLLEGE AVE		UNIVERSITY OF MAINE	107 MCUNE AVE	#6 Fuel Oil			04/04/1983
GORHAM	P-349-2002	FR	37 COLLEGE AVE		UNIVERSITY OF MAINE	107 MCUNE AVE	#2 Fuel Oil			04/04/1983
GORHAM	P-336-2002	FR	375 MAIN ST	LETOURNEAU	GORHAM CREDIT UNION	375 MAIN ST	Unleaded Gasoline	1.00	G	05/14/2002
GORHAM	P-405-2002	FR	192 NARRAGANSETT DR - RT 202	FRAZIER		188 NARRAGANSETT DR	None			06/13/2002
GORHAM	P-499-2002	FR	RT 112	SCHMITZ	VERIZON		Hydraulic Oil	25.00	G	07/19/2002

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GORHAM	P-1015-2002	FR	688 GRAY RD - RT 202		LAMPRON ENERGY OIL CO	435 OSSIPEE TRAIL	Gasoline Unspecified	5.00	G	07/22/2002
GORHAM	P-562-2002	FR	FORT HILL & WESCOTT				Diesel	5.00	G	08/08/2002
GORHAM	P-1034-2002	FR	4 RAILROAD AVE	CARTER	CARTERS AUTO SERVICE	4 RAILROAD AVE	Waste Oil/Used Motor Oil			10/17/2002
GORHAM	P-815-2002	FR	105 PLUMMER RD	MEROLA		105 PLUMMER RD	#2 Fuel Oil	30.00	G	10/28/2002
GORHAM	P-814-2002	FR	COLLEGE RD		C N BROWN	PO BOX 200	#2 Fuel Oil	1.00	G	10/31/2002
GORHAM	P-864-2002	FR	LIBBY & NEW PORTLAND RDS		MYSTERY		Diesel	20.00	G	
GORHAM	P-904-2002	FR	29 SCHOOL ST				Unleaded Gasoline	2.00	G	11/13/2002
GORHAM	P-900-2002	FR	RT 114		V I P CHARTER COACHES	129 FOX ST	Non-Chemical Non-Oil Specified in report	10.00	P	12/03/2002
GORHAM	P-900-2002	FR	RT 114		V I P CHARTER COACHES	129 FOX ST	Oil - Other - Specified in Report	1.00	G	12/03/2002
GORHAM	P-972-2002	FR	34 KAYLA WAY		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	1.00	G	12/20/2002
GORHAM	P-978-2002	FR	104 QUINCY DR		C N BROWN	PO BOX 200	#2 Fuel Oil	50.00	G	12/20/2002
GORHAM	P-69-2003	FR	8 GAMBO RD	MCPHEE		8 GAMBO RD	#2 Fuel Oil	3.00	G	01/27/2003
GORHAM	P-65-2003	FR	91 LOVERS LN		LAMPRON ENERGY INC	435 OSSIPPEE TR	#2 Fuel Oil	17.00	G	01/28/2003
GORHAM	P-153-2003	FR	78 CRESSEY RD	WOOD		78 CRESSEY RD	#2 Fuel Oil	0.00	G	
GORHAM	P-177-2003	FR	59 MCLELLAN RD	LACOURSE		59 MCLELLAN RD	#1 Fuel Oil - Kerosene	35.00	G	
GORHAM	P-222-2003	FR	42 FARRINGTON RD				None			
GORHAM	P-291-2003	FR	90 MAIN ST		C N BROWN	PO BOX 200	#1 Fuel Oil - Kerosene	5.00	G	04/17/2003
GORHAM	P-383-2003	FR	BROOKWOOD DR		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	05/19/2003
GORHAM	P-387-2003	FR	FRIENDLY VILLAGE - 292 CHESNUT CL	CURRIER		FRIENDLY VILLAGE	#1 Fuel Oil - Kerosene	5.00	G	05/20/2003

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GORHAM	P-394-2003	FR	NO GORHAM POND		UNKNOWN		Unleaded Gasoline	0.50	G	05/25/2003
GORHAM	P-517-2003	FR	435 OSSIPPEE TR		LAMPRON ENERGY INC	435 OSSIPPEE TR	Unleaded Gasoline	10.00	G	
GORHAM	P-539-2003	FR	DAY RD				Asphalt	0.00	G	
GORHAM	P-548-2003	FR	44 WHIPPLE RD	REALI	MARRINERS RESTUARANT INC	PO BOX 980	#2 Fuel Oil	1.00	G	
GORHAM	P-584-2003	FR	20 MOSHER RD		LAMPRON ENERGY INC	435 OSSIPPEE TR	Unleaded Gasoline			
GORHAM	P-799-2003	FR	COLLEGE AVE	KIRK	UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	Ammonia	1.00	G	
GORHAM	P-741-2003	FR	80 MAIN ST - RT 250		GORHAM SAVINGS BANK	10 WENTWORTH DR	None	0.00	G	
GORHAM	P-601-2003	FR	115 MAIN ST		C N BROWN	PO BOX 200	None			
GORHAM	P-819-2003	FR	BRACKETT & NEW PORTLAND RDS	CARD	WILDCARD TRANSPORT INC.	217 BEACH RIDGE RD	Diesel			
GORHAM	P-819-2003	FR	BRACKETT & NEW PORTLAND RDS	CARD	WILDCARD TRANSPORT INC.	217 BEACH RIDGE RD	Waste Oil/Used Motor Oil	2.00	G	
GORHAM	P-849-2003	FR	RT 25		BLUE ROCK INDUSTRIES	58 MAIN ST	Diesel	1.00	G	
GORHAM	P-889-2003	FR	125 BRACKETT ST	NORDFORS		125 BRACKETT RD	Unleaded Gasoline			
GORHAM	P-1032-2003	FR	57 WATERHOUSE RD	BENT		57 WATERHOUSE RD	None	0.00	G	
GORHAM	P-110-2004	FR	601 MAIN ST		UNKNOWN TRUCK OPERATOR		Diesel	5.00	G	
GORHAM	P-148-2004	FR	HUTCHERSON DR		DAY & ROSS TRANSPORT	398 MAIN ST	Diesel	30.00	G	
GORHAM	P-197-2004	FR	12 SHAWS MILL RD	ROLLINS		PO BOX 125	#1 Fuel Oil - Kerosene	20.00	G	
GORHAM	P-243-2004	FR	519 FORT HILL RD	BUTLER		148 SPURWINK AVE	Unleaded Gasoline	5.00	G	
GORHAM	P-262-2004	FR	332 NEW PORTLAND RD		HILLSIDE LUMBER	781 COUNTY RD	Hydraulic Oil	0.50	G	

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GORHAM	P-270-2004	FR	59 BRACKETT RD	TACKETT		59 BRACKETT RD	#1 Fuel Oil - Kerosene			
GORHAM	P-381-2004	FR	688 GRAY RD - RT 237		LAMPRON ENERGY INC	435 OSSIPPEE TR	Unleaded Gasoline			
GORHAM	P-442-2004	FR	137 NARRAGANSETT RD - RT202/4	HILL		137 NARRAGANSETT RD	Gasoline Unspecified			
GORHAM	P-523-2004	FR	426 SOUTH ST	ROBINSON		426 SOUTH ST	#2 Fuel Oil	2.00	G	
GORHAM	P-554-2004	FR	STROUDWATER FALLS LN		KINGS FARM	KINGS FARM RD	None			
GORHAM	P-614-2004	FR	COUTNY RD - RT 22		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	11.00	G	
GORHAM	P-710-2004	FR	111 WOOD RD	WYLIE		111 WOOD RD	#2 Fuel Oil	0.10	G	
GORHAM	P-732-2004	FR	673 MAIN ST		LAKE REGION FURNITURE AKA CROCKETT BROTHERS CORP	673 MAIN ST	#2 Fuel Oil	0.50	G	
GORHAM	P-771-2004	FR	WINSLOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.10	G	
GORHAM	P-779-2004	FR	14 PLEASANT ST	VAN EEKELEN		C/O MAJIM ANIMASHAUN	#2 Fuel Oil	200.00	G	
GORHAM	P-807-2004	FR	71 SOUTH ST		BAXTER HOUSE MUSEUM	71 SOUTH ST	Non-Chemical Non-Oil Specified in report			
GORHAM	P-832-2004	FR	299 MAIN ST		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.50	G	
GORHAM	P-835-2004	FR	LINE RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	2.00	G	
GORHAM	P-928-2004	FR	29 PATIO PARK	LALIBERTY		29 PATIO PARK	#1 Fuel Oil - Kerosene	20.00	G	
GORHAM	P-953-2004	FR	315 LIBBY AVE		TRANSPORTATIO N, ME DEPT OF	315 LIBBY AVE	Hydraulic Oil	10.00	G	
GORHAM	P-1102-2004	FR	12 RICHARD RD	WISE		12 RICHARD RD	Hazardous Chemical - Unspecified			
GORHAM	P-1153-2004	FR	302 NO GORHAM RD	QUINN		302 NO GORHAM RD	#2 Fuel Oil	0.25	G	

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GORHAM	P-24-2005	FR	36 LONGMEADOW DR	BABINO		36 LONG MEADOW DR	#2 Fuel Oil	0.25	G	
GORHAM	P-59-2005	FR	230 MAIN ST	DANIELS		230 MAIN ST	#2 Fuel Oil	30.00	G	
GORHAM	P-70-2005	FR	RT 25 - OSSIPPEE TR		CENTRAL MAINE POWER	83 EDISON DR	None			
GORHAM	P-168-2005	FR	17 INDIAN CAMP WAY		UNSPECIFIED DUMP TRUCK		Unspecified Oil	0.50	G	
GORHAM	P-278-2005	FR	20 MOSHER RD		LAMPRON ENERGY INC	435 OSSIPPEE TR	None			
GORHAM	P-354-2005	FR	16 ELM ST	MANISCALCO		16 ELM ST	#2 Fuel Oil	1.00	G	
GORHAM	P-383-2005	FR	137 MAIN ST		CUMBERLAND FARMS INC	777 DEDHAM ST	Hydraulic Oil	2.00	G	
GORHAM	P-383-2005	FR	137 MAIN ST		CUMBERLAND FARMS INC	777 DEDHAM ST	Unleaded Gasoline			
GORHAM	P-442-2005	FR	81 KEMP RD	BEAGEL		81 KEMP RD	Unspecified Oil			
GORHAM	P-493-2005	FR	FLAGGY MEADOW & RT 25				Unleaded Gasoline	5.00	G	
GORHAM	P-636-2005	FR	14 DUNLAP RD	COPPERSMITH		14 DUNLAP RD	#2 Fuel Oil			
GORHAM	P-681-2005	FR	OSSIPPEE TRAIL	PETTERSEN		328 DOLES RIDGE RD	Unleaded Gasoline	5.00	G	
GORHAM	P-706-2005	FR	27 CHURCH ST	BOYKO		27 CHURCH ST	#2 Fuel Oil	0.50	G	
GORHAM	P-798-2005	FR	BRIARWOOD RD - PUMP STATION		LKQ AKA GORHAM AUTO PARTS	176 NARRAGANSETT ST	Waste Oil/Used Motor Oil			
GORHAM	P-979-2005	FR	PLUMMER RD	LEAVITT	LEAVITT EARTHWORKS CO INC	PO BOX 703	Waste Oil/Used Motor Oil			
GORHAM	P-979-2005	FR	PLUMMER RD	LEAVITT	LEAVITT EARTHWORKS CO INC	PO BOX 703	Diesel			
GORHAM	P-1026-2005	FR	275 FORT HILL RD		US TRUST COMPANY OF NE	225 FRANKLIN ST	#2 Fuel Oil			
GORHAM	P-1041-2005	FR	2 GLENWOOD AVE	BROOK-HILL		2 GLENWOOD AVE	#2 Fuel Oil	1.00	G	
GORHAM	P-51-2006	FR	363 SEBAGO LAKE RD	GAMMON		363 SEBAGO LAKE RD	#1 Fuel Oil - Kerosene			

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-124-2006	FR	RT 202				Non-Chemical Non-Oil Specified in report	0.00	G	
GORHAM	P-233-2006	FR	240 BIRCH DR	TRYNOR		240 BIRCH DR	#1 Fuel Oil - Kerosene	10.00	G	
GORHAM	P-230-2006	FR	149 HEMLOCK DRIVE	ROWE		149 HEMLOCK DRIVE	#1 Fuel Oil - Kerosene	100.00	G	
GORHAM	P-333-2006	FR	208 SOUTH MAIN STREET	LIBBY	LIBBY CONSTRUCTION	POB 276	Asphalt	10.00	G	
GORHAM	P-413-2006	FR	22 BURNHAM RD				Unleaded Gasoline			
GORHAM	P-394-2006	FR	HUSTON RD	DORE		32 MOSES LITTLE DR	Non-Chemical Non-Oil Specified in report			
GORHAM	P-432-2006	FR	256 SEBAGO LAKE RD	PERRY	R H PERRY EXCAVATING	315 SEBAGO LAKE RD	Diesel	5.00	G	
GORHAM	P-523-2006	FR	56 NORTH STREET		PINE TREE WASTE	RUMERY ROAD	Anti-freeze	1.00	G	
GORHAM	P-607-2006	FR	MAIN ST		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-610-2006	FR	463 FORT HILL RD		BENNETTS ALLWEATHER PAINTBALL	463 FORT HILL RD	Hydraulic Oil			
GORHAM	P-616-2006	FR	52 ROBIE ST	LUCE		52 ROBIE ST	#2 Fuel Oil	60.00	G	
GORHAM	P-750-2006	FR	35 SPILLER RD		MAINE TURF AND GREENERY	PO BOX 6358	Hydraulic Oil	1.00	G	
GORHAM	P-771-2006	FR	25 HANNAH DR		YORKIE OIL	154 PLEASANT HILL RD	#2 Fuel Oil	0.50	G	
GORHAM	P-764-2006	FR	ROUTE 114	SKILLINGS	R.J. GRONDIN & SONS	11 BARTLETT RD	Hydraulic Oil	20.00	G	
GORHAM	P-854-2006	FR	333 GRAY ROAD	FOSTER		333 GRAY ROAD	#1 Fuel Oil - Kerosene			
GORHAM	P-954-2006	FR	75 MIGHTY ST		UNKNOWN		Waste Oil/Used Motor Oil	0.10	G	
GORHAM	P-954-2006	FR	75 MIGHTY ST		UNKNOWN		Unleaded Gasoline	0.10	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-1007-2006	FR	664 MAIN ST [ROUTE 25]		CARPET BARN	664 MAIN ST	Unleaded Gasoline			
GORHAM	P-34-2007	FR	4 GLENWOOD AVE	HILL		WATER STREET	#2 Fuel Oil			
GORHAM	P-34-2007	FR	4 GLENWOOD AVE	HILL		WATER STREET	#1 Fuel Oil - Kerosene			
GORHAM	P-57-2007	FR	31 RUNNING SPRING RD	MILLER		31 RUNNING SPRING RD	Mercury	0.00	G	
GORHAM	P-76-2007	FR	59 LIBBY AVE, LOT #31 IN PATIO PARK		DODGE OIL COMPANY	79 NEW PORTLAND ROAD	#1 Fuel Oil - Kerosene	5.00	G	
GORHAM	P-175-2007	FR	615 MAIN ST, ROUTE 25		NAPPI DISTRIBUTORS	615 MAIN STREET	None			
GORHAM	P-1061-2007	FR	MORRILL AVENUE POLE #5		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	5.00	G	
GORHAM	P-221-2007	FR	295 LIBBY AVE	CONNOR		295 LIBBY AVE	#1 Fuel Oil - Kerosene	1.00	G	
GORHAM	P-229-2007	FR	89 NARRAGANSETT	HUSKINS		89 NARRAGANSETT STREET	#2 Fuel Oil	50.00	G	
GORHAM	P-256-2007	FR	FORT HILL ROAD POLE #194		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
GORHAM	P-265-2007	FR	238 BIRCH DR	CUMMINGS		238 BIRCH DR	#1 Fuel Oil - Kerosene	5.00	G	
GORHAM	P-301-2007	FR	DOUGLAS KNOLL PADMOUNT TRANSFORMER 2.1		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	25.00	G	
GORHAM	P-367-2007	FR	26 MOSHER RD [ROUTE 237]		JTL OIL COMPAN	26 MOSHER ROAD	None	0.00	G	
GORHAM	P-438-2007	FR	ROUTE 114 & WEEKS RD	DRIVER			Diesel	5.00	G	
GORHAM	P-533-2007	FR	8 JACKIES WAY	MCCORMICK		8 JACKIE'S WAY	Mercury	0.01	G	
GORHAM	P-552-2007	FR	179 HUSTON RD	CONNOLLY		179 HUSTON RD	Unleaded Gasoline	0.25	G	
GORHAM	P-555-2007	FR	BEYOND 55 BRIARWOOD				None			
GORHAM	P-566-2007	FR	688 GRAY RD, RT. 202 CIRCLE		LAMPRON ENERGY INC	435 OSSIPPEE TR	Gasoline Unspecified			
GORHAM	P-577-2007	FR	262 MAPLE DRIVE	SHANNON		262 MAPLE DRIVE	#2 Fuel Oil	2.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-594-2007	FR	56 QUEEN ST				Unleaded Gasoline	1.00	G	
GORHAM	P-601-2007	FR	MAIN ST				Diesel			
GORHAM	P-633-2007	FR	RTE 25	BROWN		1418 BRIDGTON ROAD	Unleaded Gasoline	1.00	G	
GORHAM	P-718-2007	FR	213 BUCK RD (COPPERHEAD RD)		TROIANO WASTE SERVICES INC	PO BOX 3541	Diesel	5.00	G	
GORHAM	P-828-2007	FR	393 OSSIPEE TRAIL	VERRILL	V&M CONSTRUCTION SERVICES	393A OSSIPEE TRAIL	Diesel	10.00	G	
GORHAM	P-916-2007	FR	20 MOSHER RD		LAMPRON ENERGY INC	435 OSSIPPEE TR	Unleaded Gasoline	15.00	G	
GORHAM	P-20-2008	FR	311 RTE 114		DOWNEAST ENERGY	172 MAIN ST	#2 Fuel Oil	0.00	G	
GORHAM	P-22-2008	FR	751 GRAY RD		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.25	G	
GORHAM	P-156-2008	FR	CORNER OF ROUTE 25 & LIBBY STREET		MAIETTA CONSTRUCTION	154 PLEASANT HILL ROAD	Waste Oil/Used Motor Oil	5.00	G	
GORHAM	P-156-2008	FR	CORNER OF ROUTE 25 & LIBBY STREET		MAIETTA CONSTRUCTION	154 PLEASANT HILL ROAD	Diesel	390.00	G	
GORHAM	P-205-2008	FR	18 CHRISTOPHER RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
GORHAM	P-231-2008	FR	20 SANBORN ST		DEAD RIVER CO	73 PLEASANT HILL RD	#2 Fuel Oil	0.20	G	
GORHAM	P-265-2008	FR	MAIN ST PARKING LOT	AUTOMOBILE		RITE AID PARKING LOT	Unleaded Gasoline			
GORHAM	P-341-2008	FR	19 PREBLE ST	GLIDDEN		PO BOX 1185	Mercury			
GORHAM	P-558-2008	FR	150 BRICKETT RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-550-2008	FR	1 NORTH ST		NORTH ST. CHURCH	1 NORTH ST.	#2 Fuel Oil			
GORHAM	P-592-2008	FR	CAMP ROAD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-1192-2008	FR	CAMP ROAD TAP		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-749-2008	FR	BRACKETT ROAD AND DAY ROAD		SHAW BROTHERS CONSTRUCTION INC	511 MAIN STREET	Diesel	1.00	G	
GORHAM	P-632-2008	FR	30 ELMWOOD LN, RT 35		LAMPRON ENERGY INC (NOURIA ENERGY)	435 OSSIPPEE TRAIL	#2 Fuel Oil	1.00	G	
GORHAM	P-632-2008	FR	30 ELMWOOD LN, RT 35		LAMPRON ENERGY INC (NOURIA ENERGY)	435 OSSIPPEE TRAIL	#1 Fuel Oil - Kerosene	1.00	G	
GORHAM	P-646-2008	FR	JUNIPER RD		CENTRAL MAINE POWER	83 EDISON DR	Hydraulic Oil	10.00	G	
GORHAM	P-645-2008	FR	NEWTON RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-642-2008	FR	LIBBY LANE		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-644-2008	FR	LIBBY AVE		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
GORHAM	P-643-2008	FR	SPILLER RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-640-2008	FR	LONGFELLOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	3.00	G	
GORHAM	P-641-2008	FR	LONGFELLOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-639-2008	FR	LONGELLOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	5.00	G	
GORHAM	P-638-2008	FR	MIGHTY RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
GORHAM	P-637-2008	FR	FORT HILL RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
GORHAM	P-789-2008	FR	67 NORTH ROAD			67 NORTH ROAD	Mercury	0.00	G	
GORHAM	P-853-2008	FR	37 COLLEGE AVE		UNIVERSITY OF SOUTHERN MAINE	37 COLLEGE AVE	Hazardous Chemical - Specified in report	20.00	G	
GORHAM	P-940-2008	FR	LONGFELLOW				Unleaded Gasoline	5.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-1001-2008	FR	601 MAIN STREET		BOOM TECHNOLOGIES	130 THADEUS STREET	Gasoline Unspecified	2.00	G	
GORHAM	P-998-2008	FR	435 OSSIPEE TRAIL		LAMPRON ENERGY INC	435 OSSIPPEE TR	#1 Fuel Oil - Kerosene	10.00	G	
GORHAM	P-1074-2008	FR	771 GRAY ROAD	SAINTORES		771 GRAY ROAD	#2 Fuel Oil	2.00	G	
GORHAM	P-1071-2008	FR	137 MAIN STREET		CUMBERLAND FARMS INC	777 DEDHAM ST	Gasoline Unspecified	2.00	G	
GORHAM	P-1103-2008	FR	166 BURNHAM RD		VEHICLE LEAK - RP UNIDENTIFIED		Waste Oil/Used Motor Oil	1.00	G	
GORHAM	P-1170-2008	FR	COUNTY ROAD		CENTRAL MAINE POWER	83 EDISON DR	Hydraulic Oil	1.00	G	
GORHAM	P-1142-2008	FR	228 NEW PORTLAND RD		GORHAM FIRE DEPARTMENT	270 MAIN ST	Hydraulic Oil	2.00	G	
GORHAM	P-148-2009	FR	19 WOODLAND RD	DAVIS		19 WOODLAND RD	#1 Fuel Oil - Kerosene	0.10	G	
GORHAM	P-97-2009	FR	435 OSSIPEE TR	DUPUIS	JP NOONAN TRANSPORTATIO N INC	415 WEST ST	#2 Fuel Oil	5.00	G	
GORHAM	P-143-2009	FR	27 DANIEL ST	ROY		27 DANIEL ST	#1 Fuel Oil - Kerosene	2.00	G	
GORHAM	P-138-2009	FR	12 MAPLE DRIVE		ROYAL OIL	2066 BROADWAY	#2 Fuel Oil	1.00	G	
GORHAM	P-216-2009	FR	22 GLENWOOD AVE		RENTAL RESIDENCE	22 GLENWOOD AVE	Non-Chemical Non-Oil Specified in report	0.10	G	
GORHAM	P-268-2009	FR	18 GATEWAY COMMONS		HOLLY'S OIL CO	380 MAIN ST	#2 Fuel Oil	3.00	G	
GORHAM	P-360-2009	FR	27 OSBOURNE RD		PIKE INDUSTRIES	3 EASTGATE PARK RD	Diesel	5.00	G	
GORHAM	P-373-2009	FR	99 MAIN ST				Unleaded Gasoline	2.00	G	
GORHAM	P-968-2009	FR	30 STRAW RD		MAINE DRILLING & BLASTING	PO BOX 1140	Hydraulic Oil	3.00	G	
GORHAM	P-17-2010	FR	375 MAIN ST		UNSPECIFIED MOTOR VEHICLES		Waste Oil/Used Motor Oil	5.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
GORHAM	P-17-2010	FR	375 MAIN ST		UNSPECIFIED MOTOR VEHICLES		Anti-freeze	5.00	G	
GORHAM	P-92-2010	FR	39 LONGFELLOW RD	HYNES		39 LONGFELLOW RD	#2 Fuel Oil			
GORHAM	P-145-2010	FR	OSSIPPEE TRAIL & BRANDY BROOK HILL				Transmission Oil	1.00	G	
GORHAM	P-172-2010	FR	USM PARKING LOT			USM PARKING LOT	Unleaded Gasoline	0.25	G	
GORHAM	P-204-2010	FR	8 NEWELL ST & GRAY RD	MESERVE		8 NEWELL STREET	None			
GORHAM	P-276-2010	FR	137 MAIN STREET		CUMBERLAND FARMS INC	777 DEDHAM ST	Unleaded Gasoline	5.00	G	
GORHAM	P-208-2010	FR	137 MAIN STREET		CUMBERLAND FARMS INC	777 DEDHAM ST	Regular Gasoline	10.00	G	
GORHAM	P-253-2010	FR	3 BURNHAM ROAD	LAWTON		3 BURNHAM ROAD	#2 Fuel Oil	10.00	G	
GORHAM	P-1116-2010	FR	SUNSET RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.01	G	
GORHAM	P-580-2010	FR	LAWN AVE POLE # 9		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	17.00	G	
GORHAM	P-1110-2010	FR	WOOD TOWN RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	12.00	G	
GORHAM	P-2-2011	FR	MOSHER ROAD				Unleaded Gasoline	5.00	G	
GORHAM	P-130-2011	FR	859 GRAY ROAD	JONASSEN		859 GRAY ROAD	#1 Fuel Oil - Kerosene	214.00	G	
GORHAM	P-276-2011	FR	341 MOSHER RD (RT. 237)		SHAW BROTHERS CONSTRUCTION	341 MOSHER RD	None			
GORHAM	P-315-2011	FR	195 MAIN ST		RC MOORE TRUCKING	8 GINN RD	Diesel	50.00	G	
GORHAM	P-383-2011	FR	9 LAURENCE DRIVE		MAINE INDUSTRIAL TIRE	9 LAURENCE DRIVE	Hydraulic Oil			
GORHAM	P-540-2011	FR	FLAGGY MEADOW RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.50	G	
GORHAM	P-760-2011	FR	27 MAHLON AVE.	TANOUS		27 MAHLON AVE./ROAD	#2 Fuel Oil			

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MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WILTON	A-87-2007	FR	380 ROUTE4				Unleaded Gasoline	8.00	G	
WILTON	A-117-2007	FR	230 LAKE ROAD	PHILBRICK	LAKESIDE AUTO	230 LAKE ROAD	Diesel	1.00	G	
WILTON	A-203-2007	FR	1048 MAIN ST LOT 6	MAILLET		BOX 881	#1 Fuel Oil - Kerosene	150.00	G	
WILTON	A-374-2007	FR	RT 4	MOTORIST			Unleaded Gasoline	4.00	G	
WILTON	A-650-2007	FR	131 VILLAGE VIEW	WALSTON		131 VILLAGE VIEW	#1 Fuel Oil - Kerosene			
WILTON	A-17-2008	FR	ROUTE 4 & 380 ROUTE 2E		C N BROWN	PO BOX 200	Diesel	3.00	G	
WILTON	A-33-2008	FR	PO BOX 61 RT 133	HEINRICH		PO BOX 61	#1 Fuel Oil - Kerosene	250.00	G	
WILTON	A-181-2008	FR	1039 MAIN STREET #8	HARGREAVES		1039 MAIN STREET #8	#1 Fuel Oil - Kerosene	1.00	G	
WILTON	A-212-2008	FR	227 ROUTE 2				Unleaded Gasoline	12.00	G	
WILTON	A-213-2008	FR	ROUTE 4				Diesel	7.00	G	
WILTON	A-412-2008	FR	5 MILL ST - PARKING LOT	VEHICLE			Waste Oil/Used Motor Oil	3.00	G	
WILTON	A-148-2009	FR	327 MCCRILLIS CORNER RD	ALLEN		327 MCCRILLIS CORNER RD	#2 Fuel Oil			
WILTON	A-564-2009	FR	ROUTE 2	BRAGDON	BDS WASTE DISPOSAL	552 MOOSEHEAD TRAIL	Hydraulic Oil	5.00	G	
WILTON	A-564-2009	FR	ROUTE 2	BRAGDON	BDS WASTE DISPOSAL	552 MOOSEHEAD TRAIL	Diesel	20.00	G	
WILTON	A-771-2009	FR	284 MAIN ST		ANDROSCOGGIN HOME CARE	284 MAIN ST	Unknown Substance			
WINDHAM	P-31-1982	FR	SANDBAR RD.	HENNESEY		SANDBAR RD.	Unleaded Gasoline		G	
WINDHAM	P-32-1983	FR			MYSTERY		#2 Fuel Oil	5.00	G	02/24/1983
WINDHAM	P-49-1983	FR	NORTH WINDHAM		DIXON BROS. OIL CO	MINERAL SPRINGS RD	#2 Fuel Oil	10.00	G	03/15/1983
WINDHAM	P-356-1983	FR			HERITAGE METALCRAFT, INC		None	0.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-139-1983	FR			UNKNOWN		Unspecified Oil	0.75	G	
WINDHAM	P-300-1983	FR			SERVICE OIL CO		#2 Fuel Oil		G	09/27/1983
WINDHAM	P-23-1984	FR	NORTH WINDHAM		C N BROWN CO		Unleaded Gasoline	15.00	G	02/02/1984
WINDHAM	P-86-1984	FR			UNKNOWN		Unspecified Oil			
WINDHAM	P-76-1984	FR	VISTA DR.		VETERAN'S ADMINISTRATION		#2 Fuel Oil	5.00	G	
WINDHAM	P-278-1984	FR	NORTH WINDHAM		UNKNOWN		Gasoline Unspecified			
WINDHAM	P-67-1985	FR			N/A		Non-Chemical Non-Oil Unspecified			
WINDHAM	P-123-1985	FR	SANDBAR RD.	MAYBERRY		SANDBAR ROAD	Waste Oil/Used Motor Oil	5.00	G	05/13/1985
WINDHAM	P-162-1985	FR	RR2 BOX 249F	CALDERWOOD		RR 2, BOX 249F	Waste Oil/Used Motor Oil	50.00	G	06/20/1985
WINDHAM	P-316-1985	FR			PRESUMPSCOT RIVER	RIVER ROAD	#1 Fuel Oil - Kerosene			
WINDHAM	P-131-1986	FR	COMMERCIAL PROPERTY		WINSLOW, R.H.		Gasoline Unspecified			
WINDHAM	P-148-1986	FR	RT. 302		WINDHAM ELEMENTARY	OFF ROUTE 302	#2 Fuel Oil	1.50	G	03/24/1986
WINDHAM	P-260-1986	FR			CENTRAL MAINE POWER	EDISON DRIVE	PCB Oil	3.00	G	07/25/1986
WINDHAM	P-278-1986	FR	28 WARD RD.	HOCHADEL		28 WARD ROAD	#2 Fuel Oil	30.00	G	08/14/1986
WINDHAM	P-506-1986	FR			SOUTH WINDHAM CORRECTION CTR.	RIVER ROAD	Hazardous Chemical - Unspecified			
WINDHAM	P-407-1986	FR	633 ROOSEVELT TRAIL		AUCOIN'S SALES AND SERVICE	633 RT. 302	None	0.00	G	
WINDHAM	P-463-1986	FR			CLEAN O RAMA	838 GRAY RD.	None	0.00	G	
WINDHAM	P-462-1986	FR			BALLARD OIL CO.	809 GRAY RD.	None	0.00	G	
WINDHAM	P-438-1986	FR	ROOSEVELT TRAIL		CENTURY TIRE COMPANY	RT. 302	Waste Oil/Used Motor Oil	5.00	G	11/26/1986

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-11-1987	FR	PILGRIM RD.	THORNE		PILGRIM ROAD	#2 Fuel Oil	150.00	G	
WINDHAM	P-96-1987	FR			LITTLE SEBAGO LAKE		None	0.00	G	
WINDHAM	P-101-1987	FR		POIREE		BOX 462	#2 Fuel Oil	50.00	G	
WINDHAM	P-451-1987	FR	809 GRAY RD.		BALLARD OIL-HAWKES, RL	809 GRAY ROAD	Gasoline Unspecified	30.00	G	04/15/1987
WINDHAM	P-107-1987	FR		WINDHAM			#1 Fuel Oil - Kerosene	5.00	G	
WINDHAM	P-231-1987	FR	828 GRAY RD		TANK EXCAVATION-PA UL SFERES	828 GRAY RD.	Gasoline Unspecified			05/25/1987
WINDHAM	P-194-1987	FR	RT. 202		WINDHAM HIGH SCHOOL	RT. 202	#2 Fuel Oil	30.00	G	06/15/1987
WINDHAM	P-189-1987	FR			CENTRAL MAINE POWER	CANCO ROAD	#2 Fuel Oil	7.00	G	07/08/1987
WINDHAM	P-263-1987	FR			CENTRAL MAIN POWER CO.	EDISON DRIVE	#2 Fuel Oil	1.00	G	07/27/1987
WINDHAM	P-523-1987	FR			MAINE CORRECTIONAL CENTER	RIVER ROAD	#6 Fuel Oil	60.00	G	
WINDHAM	P-442-1987	FR		WELCH			Lube Oil	1.00	G	12/03/1987
WINDHAM	P-97-1988	FR	59 COTTAGE RD.	HIGGINS		59 COTTAGE ROAD	#2 Fuel Oil	30.00	G	05/03/1988
WINDHAM	P-137-1988	FR	RIVER RD.		OIL INVESTIGATION	RIVER ROAD	Marsh Sheen	0.00	G	05/31/1988
WINDHAM	P-120-1988	FR	34 SHORE RD.	BURGESS		34 SHORE RD.	Waste Oil/Used Motor Oil	1.00	G	06/10/1988
WINDHAM	P-465-1988	FR	NORTH WINDHAM		MYSTERY SPILL		Waste Oil/Used Motor Oil	0.00	G	06/09/1988
WINDHAM	P-458-1988	FR	NORTH WINDHAM		MLT MANAGEMENT CO.	155 CENTER STREET	Diesel			07/12/1988
WINDHAM	P-317-1988	FR	LAKEVIEW DR.	PICKERING		LAKEVIEW DRIVE	#2 Fuel Oil	5.00	G	07/20/1988
WINDHAM	P-16-1988	FR	POPE ROAD	OVID		POPE ROAD	None	0.00	G	07/24/1988
WINDHAM	P-348-1988	FR	MAIN ST., RT. 302		C N BROWN OIL CO.	MAIN STREET	Gasoline Unspecified	7.00	G	09/01/1988

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-246-1988	FR	28 DEPOT ST.	RANDALL		28 DEPOT STREET	#2 Fuel Oil	250.00	G	
WINDHAM	P-367-1988	FR		ROGERS			Waste Oil/Used Motor Oil	1.00	G	10/26/1988
WINDHAM	P-376-1988	FR		ROGERS			Waste Oil/Used Motor Oil	1.00	G	10/26/1988
WINDHAM	P-397-1988	FR	WINDHAM CENTER		CORSETTIS VARIETY	WINDHAM CENTER	None	0.00	G	11/30/1988
WINDHAM	P-415-1988	FR	463 RIVER RD.		THAYER'S STORE (J.QUIMBY)	463 RIVER ROAD	Gasoline Unspecified			12/14/1988
WINDHAM	P-100-1989	FR	MALLISON DRIVE		RICH TOOL AND DIE CO.	MALLISON DR.	#2 Fuel Oil	100.00	G	
WINDHAM	P-127-1989	FR	RT. 302 & RIVER RD.		DOWNEAST ENERGY	RT 302 & RIVER RD	Gasoline Unspecified	15.00	G	03/15/1989
WINDHAM	P-145-1989	FR	158 ROOSEVELT TRAIL		WATER SYSTEMS, INC.	158 ROOSEVELT TRAIL	Gasoline Unspecified	0.00	G	
WINDHAM	P-159-1989	FR	RT. 302		D & J EXCAVATING CO.	12 HILLSIDE DR.	Diesel	20.00	G	
WINDHAM	P-275-1989	FR	14 JOHNSON RD.	JAMES		14 JOHNSON ROAD	#1 Fuel Oil - Kerosene	200.00	G	05/11/1989
WINDHAM	P-381-1989	FR	850 ROOSEVELT TRL., RT. 302,		DON GORDON/GORDON'S OUTBOARD	850 ROOSEVELT TRAIL, RT. 302	None			
WINDHAM	P-405-1989	FR	663 ROOSEVELT TRIAL, RT 302		GETTY PETROLEUM MARKETING	1500 HEMPSTEAD TURNPIKE	Waste Oil/Used Motor Oil	40.00	G	07/13/1989
WINDHAM	P-404-1989	FR	RT. 032		MOUGALIAN & SAYADORF INC. PROP	RT.302,ROOSEVELT TL	#2 Fuel Oil	20.00	G	07/07/1989
WINDHAM	P-481-1989	FR	119 MALLISON		MAINE CORRECTIONAL CENTER	119 MALLISON	Leaded Gasoline	25.00	G	08/02/1989
WINDHAM	P-50-1989	FR			BIO-MEDICAL WASTE INVRST.		None	0.00	G	08/04/1989
WINDHAM	P-501-1989	FR			BIO-MEDICAL WASTE IND		None			08/04/1989
WINDHAM	P-513-1989	FR			UNKNOWN	20 KENNARD ROAD	None	0.00	G	08/18/1989

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-553-1989	FR	RT. 302, 619 ROOSEVELT TRAIL	MORTENSON		619 ROOSEVELT TRAIL	#2 Fuel Oil			
WINDHAM	P-767-1989	FR			WINDHAM CORRECTIONAL CENTER	17 MALLISON ROAD	PCB Oil	10.00	G	11/21/1989
WINDHAM	P-68-1990	FR	JOHNSON RD	WHITLEY		LOT 22, JOHNSON RD.	#1 Fuel Oil - Kerosene	30.00	G	01/30/1990
WINDHAM	P-240-1990	FR			WINDHAM CORRECTIONAL CENTER	RIVER ROAD	Hazardous Chemical - Unspecified	1.00	G	04/04/1990
WINDHAM	P-289-1990	FR			MCGEE RESIDENCE	117 NASH RD	Hazardous Chemical - Unspecified			04/06/1990
WINDHAM	P-246-1990	FR			C.M.P.	EDISON DRIVE	Transformer Oil	0.25	G	04/22/1990
WINDHAM	P-353-1990	FR	NO. WINDHAM SHOPPING CTR.		BRADLEE'S	NO. WINDHAM SHOP CTR	Unspecified Motor Fuel	2.00	G	05/29/1990
WINDHAM	P-401-1990	FR	185 WINDHAM CENTER RD		DOWNEAST ENERGY	172 MAIN STREET	Diesel	50.00	G	06/14/1990
WINDHAM	P-424-1990	FR	97 PERCY HAWKS RD.		NANCY & RICHARD READ PROPERTY	97 PERCY HAWKS RD	#2 Fuel Oil	30.00	G	06/23/1990
WINDHAM	P-488-1990	FR	WINDHAM CTR. RD.		WINDHAM PUBLIC WORKS	WINDHAM CENTER RD	Unleaded Gasoline	10.00	G	07/26/1990
WINDHAM	P-541-1990	FR			RICH TOOL AND DIE CO.	3 MALLISON FALLS RD.	Lube Oil	5.00	G	08/16/1990
WINDHAM	P-614-1990	FR	WINDHAM CTR. RD.		WINDHAM MAINTENANCE GARAGE	WINDHAM CENTER RD.	Unspecified Motor Fuel			09/04/1990
WINDHAM	P-657-1990	FR	PINE & GREENWOOD		PTLD WATER DISTRICT/PINE ST	PINE AND GREENWOOD	Diesel	30.00	G	10/17/1990
WINDHAM	P-19-1991	FR		WOODBURY		136 COTTAGE RD.	None			01/13/1991
WINDHAM	P-54-1991	FR	ROUTE 302		WINDHAM ELECTRIC	817 ROOSEVELT TRAIL	#2 Fuel Oil	100.00	G	01/30/1991
WINDHAM	P-126-1991	FR			LUCAS TREE CO.	P.O. BOX 958	Hydraulic Oil	9.00	G	03/04/1991
WINDHAM	P-140-1991	FR	RT. 302		CARPETLAND RT 302	RT 302 ROOSEVELT TR.	#1 Fuel Oil - Kerosene	75.00	G	03/10/1991

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WINDHAM	P-262-1991	FR	RT. 302		C N BROWN OIL CO.	P. O. BOX 200	Unleaded Gasoline	125.00	G	05/15/1991
WINDHAM	P-389-1991	FR	RIVER RD		LIBBYS TRANSPORTATIO N	RIVER RD	#1 Fuel Oil - Kerosene		G	06/13/1991
WINDHAM	P-343-1991	FR	RT. 302		SEBEGO LAKE GARAGE	RT 302	Waste Oil/Used Motor Oil	10.00	G	06/26/1991
WINDHAM	P-438-1991	FR	40 PINE AVE.		RAYMOND HERRING PROPERTY	40 PINE AVE.	Waste Oil/Used Motor Oil	1.00	G	
WINDHAM	P-604-1991	FR			MYSTERY		Unspecified Oil			
WINDHAM	P-40-1992	FR	55 ROOSEVELT TRAIL	ROGERS		55 ROOSEVELT TRAIL	#1 Fuel Oil - Kerosene	100.00	G	01/14/1992
WINDHAM	P-54-1992	FR	SLEEPY HOLLOW	ANDREWS		P. O. BOX 731	#2 Fuel Oil	25.00	G	01/20/1992
WINDHAM	P-26-1992	FR	NO. WINDHAM SHOPPING CTR.		ZIP GAS / BO LTTLEFIELD	763 ROOSEVELT TRAIL	Gasoline Unspecified			
WINDHAM	P-113-1992	FR	205 POPE RD.		VEHICLE ACCIDENT	205 POPE RD	Unspecified Motor Fuel	1.00	G	02/02/1992
WINDHAM	P-285-1992	FR	32 GAMBRO RD.		MORSE BROTHERS TRUCKING	32 GAMBO ROAD	Waste Oil/Used Motor Oil		G	12/30/1899
WINDHAM	P-327-1992	FR	746 ROOSEVELT TR - INT RTS 35 & 302		WEBBER ENERGY FUELS	700 MAIN ST	Waste Oil/Used Motor Oil			
WINDHAM	P-327-1992	FR	746 ROOSEVELT TR - INT RTS 35 & 302		WEBBER ENERGY FUELS	700 MAIN ST	Diesel			
WINDHAM	P-327-1992	FR	746 ROOSEVELT TR - INT RTS 35 & 302		WEBBER ENERGY FUELS	700 MAIN ST	Gasoline Unspecified			
WINDHAM	P-397-1992	FR	RT. 302		C.N. BROWN/N. WINDHAM CAR WASH	RT 302	Gasoline Unspecified	15.00	G	06/25/1992
WINDHAM	P-500-1992	FR	3 MALLISON FALLS RD.		RICH TOOL & DIE	3 MALLISON FALLS RD.	#2 Fuel Oil			06/30/1992
WINDHAM	P-592-1992	FR	RT. 302 & 115		CUMBERLAND FARMS INC	777 DEDHAM ST	None			
WINDHAM	P-593-1992	FR	765 ROOSEVELT @ SHOPPING CTR.		JOHNSON PRODUCTS/ZIP GAS	RT 302-765 ROOSEVELT	Unleaded Gasoline			

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WINDHAM	P-616-1992	FR	323 WINDHAM CTR. RD.	MCGOLDRICK		323 WINDHAM CTR. RD.	Gasoline Unspecified			09/29/1992
WINDHAM	P-659-1992	FR			LUCAS TREE EXPERTS	636 RIVERSIDE	Hydraulic Oil	50.00	G	10/15/1992
WINDHAM	P-704-1992	FR	727 ROOSEVELT (RT 302)		C N BROWN OIL CO	PO BOX 200	Gasoline Unspecified	100.00	G	
WINDHAM	P-734-1992	FR		PAYTON			Unknown Substance			11/19/1992
WINDHAM	P-37-1993	FR			DON RICH HEATING OIL	WOODLAND ROAD	#2 Fuel Oil	20.00	G	01/26/1993
WINDHAM	P-69-1993	FR	RT. 302		C N BROWN OIL CO.	N. WINDHAM CAR WASH	Diesel	10.00	G	02/09/1993
WINDHAM	P-144-1993	FR	4 COLLINSWOOD PARK	JORDAN		4 COLLINSWOOD PARK	#1 Fuel Oil - Kerosene	200.00	G	03/12/1993
WINDHAM	P-208-1993	FR		GOODWIN		62 VISTA DR	#1 Fuel Oil - Kerosene	15.00	G	04/07/1993
WINDHAM	P-246-1993	FR	48 ROOSEVELT TRAIL		CHILDREN'S DISCOVERY CTR.	48 ROOSEVELT TRAIL	Marsh Sheen	0.00	G	04/20/1993
WINDHAM	P-279-1993	FR	RT. 302		C N BROWN OIL CO	RT 302	Gasoline Unspecified	0.05	G	05/06/1993
WINDHAM	P-316-1993	FR	RT 302, ROOSEVELT TRAIL		GLANTZ, RON & LITTLEFIELD, BO	PO BOX 688	Gasoline Unspecified	199.00	G	
WINDHAM	P-575-1993	FR			AUTOMOBILE ACCICENT		Gasoline Unspecified	20.00	G	09/15/1993
WINDHAM	P-696-1993	FR	13 DEPOT STREET		ENERGY DEPOT	13 DEPOT STREET	Leaded Gasoline	0.00	G	10/28/1993
WINDHAM	P-722-1993	FR	526 RIVER RD	TIBBETS		37 SAWYER ST.	#2 Fuel Oil	50.00	G	
WINDHAM	P-58-1994	FR	RT 202		WINDHAM PUBLIC WORKS	185 WINDHAM CENTER RD.	Hydraulic Oil	5.00	G	01/11/1994
WINDHAM	P-89-1994	FR	ROUTE 302		CUMBERLAND FARMS INC	777 DEDHAM ST	None	0.00	G	02/23/1994
WINDHAM	P-323-1994	FR	29 ALBION RD	CONTOLINI		29 ALBION RD	#1 Fuel Oil - Kerosene	30.00	G	02/23/1994
WINDHAM	P-239-1994	FR	ROUTE 35		MYSTERY SPILL - ST. JOSEPH'S COLLEGE	PARKING LOT	Gasoline Unspecified	7.00	G	03/12/1994

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WINDHAM	P-145-1994	FR	RT 202	FINK		33 MACMILLAN DRIVE	#1 Fuel Oil - Kerosene	50.00	G	03/12/1994
WINDHAM	P-206-1994	FR	DEPOT ST		TOWN OF WINDAM	8 SCHOOL RD	#6 Fuel Oil		G	
WINDHAM	P-226-1994	FR	BRADLEES PARKING LOT		MYSTERY DUMPING	BRADLEES PARKING LOT	None	15.00	G	04/21/1994
WINDHAM	P-381-1994	FR	RT 202		GORHAM AUTO SALVAGE	RT 202	Waste Oil/Used Motor Oil	500.00	G	06/18/1994
WINDHAM	P-412-1994	FR			NYNEX	13 DAVIS FARM RD	Hydraulic Oil	1.00	G	06/22/1994
WINDHAM	P-577-1994	FR	RIVER ROAD		CHURCH OF JESUS CHRIST AND LATTER DAY SAINTS	50 EAST NORTH TEMPLE STREET	#2 Fuel Oil		G	09/07/1994
WINDHAM	P-609-1994	FR	815 ROOSEVELT TRAIL		C. N. BROWN BULK STATION	815 ROOSEVELT TRAIL	#2 Fuel Oil	10.00	G	09/26/1994
WINDHAM	P-629-1994	FR	771 ROOSEVELT TRAIL, US RT 302		WINDHAM SHOPPING CENTER	771 ROOSEVELT TRAIL, US RT 302	#2 Fuel Oil	0.05	G	10/06/1994
WINDHAM	P-697-1994	FR	15 RIVER ROAD		DOWN EAST ENERGY		#2 Fuel Oil	10.00	G	11/07/1994
WINDHAM	P-718-1994	FR	22 HIGH STREET	CUMBERLAND		142 FEDERAL STREET	None	0.00	G	
WINDHAM	P-731-1994	FR	118-B VARNEY MILL ROAD	MARTIN		118-B VARNEY MILL ROAD	#2 Fuel Oil	100.00	G	11/24/1994
WINDHAM	P-763-1994	FR	320 POPE RD.		SPRING ICE & OIL	1 PORTLAND PL	#2 Fuel Oil	0.50	G	11/30/1994
WINDHAM	P-769-1994	FR	670 ROOSEVELT TRAIL		DOWNEAST ENERGY	PO BOX 8490	Unleaded Gasoline		G	
WINDHAM	P-60-1995	FR	BOODY'S CORNER (RT 302/115)		MDOT	PO BOX 1940	Unleaded Gasoline	50.00	G	
WINDHAM	P-184-1995	FR	ROUTE 302		DOWNEAST ENERGY, INC.	172 MAIN STREET	#2 Fuel Oil	2.50	G	04/05/1995
WINDHAM	P-332-1995	FR	RIVER RD & RT. 302		VARNEY'S AUTOBODY	RIVER RD & RT. 302	None		G	04/21/1995
WINDHAM	P-219-1995	FR	RIVER ROAD (NEWHALL AREA)		MEDICAL CARE DEVELOPMENT	11 PARKWOOD DRIVE	Unspecified Oil	50.00	G	
WINDHAM	P-278-1995	FR			NYNEX	5 DAVIS FARM ROAD	Hydraulic Oil	15.00	G	05/18/1995

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WINDHAM	P-304-1995	FR	30 STAGECOACH LANE		DIXON BROTHERS	230 MAIN STREET	None	10.00	G	01/19/1995
WINDHAM	P-289-1995	FR	464 GRAY RD	ANGHEL		464 GRAY RD	Unspecified Oil	0.75	G	07/10/1995
WINDHAM	P-605-1995	FR	982 RIVER ROAD		TIMOTHY AND DEBORAH NASON	982 RIVER ROAD	None	0.00	G	
WINDHAM	P-471-1995	FR	JUST NORTH OF ROTARY	GAGNON		ROUTE 302	None	0.00	G	
WINDHAM	P-577-1995	FR	815 ROOSEVELT TRAIL, RT. 302		C. N. BROWN COMPANY	164 MAIN STREET	#2 Fuel Oil	22.00	G	09/29/1995
WINDHAM	P-580-1995	FR			TRAFFIC ACCIDENT		Diesel	10.00	G	10/02/1995
WINDHAM	P-768-1995	FR	95 ROUTE 115	RENCH		95 ROUTE 115	#2 Fuel Oil	100.00	G	12/23/1995
WINDHAM	P-778-1995	FR	34 POND VILLA RD	LAX		34 POND VILLA RD	#2 Fuel Oil	100.00	G	12/25/1995
WINDHAM	P-34-1996	FR	ROOSEVELT TRAIL		DOWNEAST ENERGY	172 MAIN STREET	#2 Fuel Oil	1.00	G	01/18/1996
WINDHAM	P-59-1996	FR	77 VARNEY MILL ROAD		DUBAY, KIM & DENNIS	77 VARNEY MILL ROAD	#1 Fuel Oil - Kerosene	150.00	G	
WINDHAM	P-218-1996	FR	663 ROOSEVELT TRAIL		GETTY PETROLEUM CORP.	27 MAIN ST.	None	0.00	G	
WINDHAM	P-323-1996	FR	SWAN ROAD		MYSTERY		Asphalt	0.50	G	
WINDHAM	P-348-1996	FR			LAND PREP SERVICE INC.	373 PRESUMPSCOT ST.	Diesel	100.00	G	05/29/1996
WINDHAM	P-384-1996	FR	15 MAINES ROAD	COX		15 MAINES ROAD	#2 Fuel Oil	20.00	G	06/26/1996
WINDHAM	P-456-1996	FR	ROUTE 302		CUMBERLAND FARMS INC.	777 DEDHAM STREET	Unspecified Motor Fuel	10.00	G	07/30/1996
WINDHAM	P-541-1996	FR	30 COOK ROAD		DOWNEAST ENERGY	55 MAIN STREET	#2 Fuel Oil	1.00	G	10/04/1996
WINDHAM	P-640-1996	FR	ROUTE 302		JONES, HAROLD PROP. (WINDHAM MILL)	ROUTE 302	Non-Hazardous Chemical - Specified in report	0.00	G	
WINDHAM	P-723-1996	FR	11 DEERFIELD CIRCLE		A. AVERY FUEL OIL	7 THOMAS DRIVE	#2 Fuel Oil	10.00	G	11/06/1996

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WINDHAM	P-758-1996	FR	CORNER RT 115 & SMITH RD		VECHILE ACCIDENT		None			
WINDHAM	P-806-1996	FR	7 POPE ROAD		TRAFFIC ACCIDENT @ POPE ROAD	7 POPE ROAD	Unleaded Gasoline	1.00	G	12/17/1996
WINDHAM	P-826-1996	FR	NORTH WINDHAM RD.		CENTRAL MAINE POWER	41 ANTHONY AVENUE	Transformer Oil	10.00	G	12/30/1996
WINDHAM	P-89-1997	FR	6 COUNTRY LANE		C.N. BROWN	PO BOX 200	#1 Fuel Oil - Kerosene	1.00	G	01/13/1997
WINDHAM	P-87-1997	FR	ROUTE 302, WINDHAM MALL		RIPLEY & FLETCHER	110 MAIN STREET	Gasoline Unspecified	10.00	G	02/13/1997
WINDHAM	P-111-1997	FR	470 GRAY ROAD		SUNRISE VIDEO PRODUCTIONS	470 GRAY ROAD	#1 Fuel Oil - Kerosene	1.00	G	
WINDHAM	P-149-1997	FR	WINDHAM PLAZA		ENVIROPAC	109 ROUTE 115	Hydraulic Oil	80.99	G	03/16/1997
WINDHAM	P-164-1997	FR	5 SOUTHSIDE DRIVE		C.N. BROWN	P.O. BOX 200	#2 Fuel Oil		G	03/26/1997
WINDHAM	P-344-1997	FR	INFRONT OF 37 HAVEN ROAD		MYSTERY	INFRONT OF 37 HAVEN ROAD	Waste Oil/Used Motor Oil	1.00	G	
WINDHAM	P-255-1997	FR	RT. 302, 619 ROOSEVELT TRAIL		LITTLEFIELD & MORTENSON	619 ROOSEVELT TRAIL	Waste Oil/Used Motor Oil	9.00	G	
WINDHAM	P-293-1997	FR	43 LAKEVIEW DRIVE		PICKERING RESIDENCE	43 LAKEVIEW DRIVE	Lube Oil		G	05/25/1997
WINDHAM	P-316-1997	FR	WINDHAM CENTER RD		WINDHAM PUBLIC WORKS	185 WINDHAM CENTER ROAD	Diesel		G	06/10/1997
WINDHAM	P-319-1997	FR	ROUTE 302 AND RIVER ROAD		DOWNEAST ENERGY	P.O. BOX 8490	Unspecified Oil	5.00	G	
WINDHAM	P-438-1997	FR	RT 302 & VARNEY MILL		NORTH AMERICAN VAN LINES TRUCK		Diesel	2.00	G	08/13/1997
WINDHAM	P-498-1997	FR	185 WINDHAM CENTER RD.		TOWN OF WINDHAM (PUBLIC WORKS DEPT.)	8 SCHOOL ST.	Diesel	20.00	G	09/12/1997
WINDHAM	P-508-1997	FR	ROUTE 202		TOWN OF WINDHAM (SCHOOL DEPT.)	WINDHAM CENTER	#2 Fuel Oil	40.00	G	
WINDHAM	P-583-1997	FR	70 WOOD RD.		ROYAL OIL COMPANY	BROADWAY	#1 Fuel Oil - Kerosene	1.00	G	09/21/1997

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WINDHAM	P-690-1997	FR	RT. 302 & VARNEY MILL ROAD		MYSTERY		Waste Oil/Used Motor Oil	4.00	G	09/24/1997
WINDHAM	P-622-1997	FR	35 FOREST LAKE ROAD	FOSTER		PO BOX 117	#2 Fuel Oil	50.00	G	11/03/1997
WINDHAM	P-714-1997	FR	815 ROOSEVELT TRAIL(RT 302)		C.N. BROWN (BULK PLANT)	815 ROOSEVELT TRAIL(RT 302)	#1 Fuel Oil - Kerosene	10.00	G	11/21/1997
WINDHAM	P-716-1997	FR	15 MAIN STREET		SOUTH WINDHAM COMMUNITY CHURCH	15 MAIN STREET	#1 Fuel Oil - Kerosene	30.00	G	11/25/1997
WINDHAM	P-12-1998	FR	764 ROOSEVELT TRAIL	HAWKES		PO BOX 45	#1 Fuel Oil - Kerosene	150.00	G	01/08/1998
WINDHAM	P-15-1998	FR	1 SHORE ROAD	DAVIS		1 SHORE ROAD	#1 Fuel Oil - Kerosene	200.00	G	01/10/1998
WINDHAM	P-45-1998	FR	815 ROOSEVELT TRAIL		C.N. BROWN	815 ROOSEVELT TRAIL	#2 Fuel Oil	15.00	G	02/04/1998
WINDHAM	P-73-1998	FR	4 COLLIN WOOD CIRCLE		JORDAN, RALPH & WICKHAM, W.	4 COLLIN WOOD CIRCLE	#1 Fuel Oil - Kerosene	200.00	G	02/18/1998
WINDHAM	P-89-1998	FR	END OF SMITH ROAD		BELL ATLANTIC		Hydraulic Oil	20.00	G	02/26/1998
WINDHAM	P-90-1998	FR	SIDE OF ROAD		MYSTERY		Hazardous Chemical - Specified in report	0.10	P	
WINDHAM	P-96-1998	FR	RIVER ROAD		MAINE CORRECTIONAL CENTER	PO BOX 260	Gasoline Unspecified	50.00	G	03/03/1998
WINDHAM	P-124-1998	FR	889 ROOSEVELT TRAIL, RT 302		CHRISTY'S MARKET INC	22 CHRISTY'S DRIVE	Unleaded Gasoline		U	
WINDHAM	P-140-1998	FR	887 ROOSEVELT TRL. RT 302		ST. PIERRE PROP. / RENT & SAVE	887 ROOSEVELT TRAIL	Lube Oil	0.00	G	
WINDHAM	P-143-1998	FR	COLBY DRIVE (NO NUMBER)		LEAVITT & SONS EARTHWORKS INC.	105 FILES RD.	Asphalt	9.00	G	04/03/1998
WINDHAM	P-193-1998	FR	HIGH STREET	CUMBERLAND		142 FEDERAL STREET	#2 Fuel Oil	50.00	G	05/11/1998
WINDHAM	P-300-1998	FR	115 BRAND & KNIGHT RD.	EASTUP		115 BRAND & KNIGHT RD.	None			

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WINDHAM	P-312-1998	FR	19 NASH ROAD EXTENSION		MYSTERY		Gasoline Unspecified	3.00	G	
WINDHAM	P-284-1998	FR	RT. 202		IRVING (HARRIS) OIL	MAIN ST.	#2 Fuel Oil	2.00	G	
WINDHAM	P-285-1998	FR	663 ROOSEVELT TRIAL 9RT 302)		GETTY (PET.) REALTY CORP. @ WINDHAM GETTY	MAIN STREET	Waste Oil/Used Motor Oil			
WINDHAM	P-314-1998	FR	746 ROOSEVELT, RT. 302 & 115		WEBBER OIL CO. (NO. WINDHAM EXXON)	700 MAIN STREET	Unleaded Gasoline			
WINDHAM	P-338-1998	FR	134 MAIN ST., RT. 202	SHAW		134 MAIN ST.	#2 Fuel Oil		G	
WINDHAM	P-404-1998	FR	7 ROUSSEAU ROAD		CENTRAL MAINE POWER	41 ANTHONY AVENUE	PCB Oil	18.00	G	08/24/1998
WINDHAM	P-426-1998	FR	587 NORTH RIVER ROAD		C.N. BROWN		#2 Fuel Oil		G	09/15/1998
WINDHAM	P-461-1998	FR	119 MALLISON FALLS RD		MAINE CORRECTIONAL CENTER	119 MALLISON FALLS RD	#2 Fuel Oil			
WINDHAM	P-465-1998	FR	119 MALLISON ST		CORRECTIONS, ME DEPT OF - CORRECTIONAL CENTER	119 MALLISON ST	#6 Fuel Oil			
WINDHAM	P-489-1998	FR	31 CENTER BROOK RD.		DEFOSSE, ARNOLD & LISA	31 CENTER BROOK RD.	None	0.00	G	
WINDHAM	P-497-1998	FR	185 WINDHAM CENTER ROAD		TOWN OF WINDHAM	8 SCHOOL ROAD	Waste Oil/Used Motor Oil		G	10/16/1998
WINDHAM	P-512-1998	FR	45 BRAND & KNIGHT RD.	SPILLER		45 BRAND & KNIGHT RD.	None			
WINDHAM	P-601-1998	FR	WHITES BRIDGE RD.		MYSTERY DRUM DUMPING	WHITES BRIDGE RD.	None	0.00	G	
WINDHAM	P-662-1998	FR	ROUTE 115		ALICE AUTOBODY	632 ROOSEVELT TRAIL (RT. 302)	Gasoline Unspecified		G	12/05/1998
WINDHAM	P-630-1998	FR	119 MALLISON STREET		MAINE CORRECTIONAL FACILITY	118 MALLISON STREET	Unspecified Motor Fuel	99.00	U	
WINDHAM	P-637-1998	FR	6 FOREST RD	DUCHAINE		6 FOREST RD	#2 Fuel Oil	25.00	G	12/24/1998
WINDHAM	P-656-1998	FR	185 WINDHAM CENTER RD		WINDHAM, TOWN OF	8 SCHOOL RD	Diesel	9.00	G	

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WINDHAM	P-22-1999	FR	46 HACKETT ROAD	JONES		46 HACKETT ROAD	Gasoline Unspecified	8.00	G	
WINDHAM	P-26-1999	FR	30 JOHNSON ROAD	HAWKES		30 JOHNSON ROAD	#1 Fuel Oil - Kerosene	275.00	G	01/16/1999
WINDHAM	P-144-1999	FR	CHAFFIN POND		MYSTERY		Hazardous Chemical - Specified in report		U	
WINDHAM	P-177-1999	FR	52 ANDERSON RD.		DIASORIN INC.	PO BOX 285	Gasoline Unspecified			
WINDHAM	P-237-1999	FR	809 ROOSEVELT TRAIL RT. 302		C N BROWN OIL CO.	MAIN ST. EXT.	Diesel	5.00	G	04/11/1999
WINDHAM	P-245-1999	FR	718 ROOSEVELT TRAIL		IRVING OIL	385 MAIN ST.	#2 Fuel Oil	10.00	G	04/13/1999
WINDHAM	P-944-1999	FR	30 PINECREST DRIVE	CONNELY		30 PINECREST DRIVE	#2 Fuel Oil	0.25	G	05/11/1999
WINDHAM	P-420-1999	FR	40 PINE AVE.	HERRING		40 PINE AVE.	None	0.00	G	
WINDHAM	P-498-1999	FR	809 ROUTE 302		C N BROWN OIL CO	PO BOX 200	Diesel	2.00	G	07/13/1999
WINDHAM	P-507-1999	FR	ROUTE 302	MONAHAN		256 QUAKER ROAD	Hydraulic Oil	2.00	G	07/13/1999
WINDHAM	P-518-1999	FR	BELOW PLEASANT RIVER		MYSTERY SHEEN		Unspecified Oil			07/22/1999
WINDHAM	P-556-1999	FR	INT RT 302 & WHITES BRIDGE RD	MCLEAN	RICHARDSONS BOATYARD	309 RT 115	Gasoline Unspecified	15.00	G	08/12/1999
WINDHAM	P-671-1999	FR	22 SWAN RD.	EATON			Unleaded Gasoline	4.00	G	09/19/1999
WINDHAM	P-728-1999	FR	32 MAIN ST.	SHAUGHNESSY		43 PARK RD.	#2 Fuel Oil	50.00	G	
WINDHAM	P-726-1999	FR	HIGHLAND SHORES ROAD	NAPIER		HIGHLAND SHORES ROAD	None	0.00	G	10/11/1999
WINDHAM	P-754-1999	FR	49 SANDBAR ROAD		GASO. DISCHARGE, RP UNKNOWN	SANDBAR ROAD	Unleaded Gasoline	5.00	G	10/30/1999
WINDHAM	P-777-1999	FR	770 ROOSEVELT TRAIL (RT.302)		REYNOLDS & SONS DISPOSAL SVR	P.O. BOX 1092, 111 ANDERSON ST	Hydraulic Oil	20.00	G	11/02/1999
WINDHAM	P-789-1999	FR			MYSTERY SHEEN COMPLIANT		Marsh Sheen	0.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-791-1999	FR	ROUTE 302		WINDHAM SCHOOL DEPARTMENT	228 WINDHAM CENTER ROAD	#1 Fuel Oil - Kerosene	0.99	G	
WINDHAM	P-803-1999	FR	WHITES BRIDGE RD.		CMP	EDISON DR.	Transformer Oil	0.25	G	11/15/1999
WINDHAM	P-810-1999	FR	1004 RIVER RD.	WOODBURY		2 PARKVIEW RD.	#2 Fuel Oil	50.00	G	11/19/1999
WINDHAM	P-929-1999	FR	18 STAGECOACH ROAD		CN BROWN COMPANY	PO BOX 200	#2 Fuel Oil	2.00	G	12/14/1999
WINDHAM	P-23-2000	FR	262 FALMOUTH RD	MERRILL		262 FALMOUTH RD	#2 Fuel Oil	80.00	G	01/12/2000
WINDHAM	P-79-2000	FR	BOX 925 ROOSEVELT TRAIL	SMITH		PO BOX 925, RT. 302	None	0.00	G	
WINDHAM	P-78-2000	FR	5 HALL RD.		AFFORDABLE WELL DRILLING CO.	GIVEN SHIPYARD RD.	Hydraulic Oil	1.00	G	01/07/2000
WINDHAM	P-99-2000	FR	19 WOODLAND ROAD	MANCHESTER		19 WOODLAND ROAD	#2 Fuel Oil		G	
WINDHAM	P-121-2000	FR	BROWN COVE ROAD		MYSTERY	BROWN COVE ROAD	Unspecified Oil	0.00	G	
WINDHAM	P-130-2000	FR	375 GRAY RD.		DIXON BROS./WEBBER ENERGY	230 MAIN ST.	#2 Fuel Oil	15.00	G	02/28/2000
WINDHAM	P-189-2000	FR	431 GRAY RD.		C N BROWN OIL CO.		#2 Fuel Oil	15.00	G	03/30/2000
WINDHAM	P-391-2000	FR	14 NORTHWOOD DRIVE	BEVERIDGE		14 NORTHWOOD DRIVE	#1 Fuel Oil - Kerosene	0.00	G	
WINDHAM	P-453-2000	FR	663 ROOSEVELT TRIAL		GETTY PET. CORP.	RT. 117	None	0.00	G	
WINDHAM	P-723-2000	FR	HIGH STREET		CENTRAL MAINE POWER COMPANY	EDISON DRIVE	Transformer Oil	10.00	G	07/28/2000
WINDHAM	P-751-2000	FR	ANTHION ROAD (OFF RT. 302)		ATLAS AUTOBODY INC.	632 ROOSEVELT TRAIL (RT.302)	None	0.00	G	
WINDHAM	P-598-2000	FR	ROUTE 302		UNIDENTIFIED AUTO		Unleaded Gasoline	3.00	G	09/08/2000
WINDHAM	P-567-2000	FR	73 HALL RD	HARMON		73 HALL RD	#2 Fuel Oil	10.00	G	09/08/2000
WINDHAM	P-575-2000	FR	32 ISLAND DR	KENNEDY SR		32 ISLAND DR	#2 Fuel Oil	10.00	U	

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WINDHAM	P-610-2000	FR	LOT #99 LAKESIDE DRIVE	BROCHU		LOT #99 LAKESIDE DRIVE	#2 Fuel Oil	3.00	G	10/06/2000
WINDHAM	P-656-2000	FR	32 GAMBO RD.		MORSE BROTHERS, INC.	32 GAMBO RD.	Hydraulic Oil	25.00	G	10/28/2000
WINDHAM	P-657-2000	FR	363 RIVER RD. & NEWHALL		THAYER STORE	363 RIVER RD	None	0.00	G	
WINDHAM	P-674-2000	FR	19 WOODLAND RD	MANCHESTER		PO BOX 793	#1 Fuel Oil - Kerosene	150.00	G	
WINDHAM	P-685-2000	FR	RT 302 - NEAR NASH RD		WINDHAM, TOWN OF	8 SCHOOL ST	Diesel	20.00	G	11/08/2000
WINDHAM	P-711-2000	FR	34 ANTHOINE ROAD	SEWELL		34 ANTHOINE ROAD	Waste Oil/Used Motor Oil	1.00	G	11/24/2000
WINDHAM	P-774-2000	FR	30 JOHNSON RD - LOT 41	BARTLETT		30 JOHNSON RD - LOT 41	#1 Fuel Oil - Kerosene	150.00	G	12/12/2000
WINDHAM	P-6-2001	FR	137 RIVER ROAD	ANDREWS		137 RIVER ROAD	#2 Fuel Oil	4.00	G	01/05/2001
WINDHAM	P-404-2001	FR	RT 115 & BROWN COVE RD		KARENS VARIETY	RT 115	Unleaded Gasoline	0.00	G	
WINDHAM	P-44-2001	FR	31 BEACH ROAD		DEAD RIVER		#2 Fuel Oil	2.00	G	01/22/2001
WINDHAM	P-60-2001	FR	RT 302		MYSTERY	SHOP N SAVE PLAZA	Gasoline Unspecified	3.50	G	
WINDHAM	P-119-2001	FR	RIVER ROAD		CORRECTIONS, ME DEPT OF	111 STATE HOUSE STATION	Unspecified Fuel Oil	300.00	G	02/22/2001
WINDHAM	P-185-2001	FR	12 ALLEN AVE		DOWNEAST ENERGY		Diesel	2.00	G	03/05/2001
WINDHAM	P-201-2001	FR	1016 RIVER RD		GRANDSTAND COLLECTIBLES	1016 RIVER RD	#1 Fuel Oil - Kerosene	5.00	G	03/21/2001
WINDHAM	P-203-2001	FR	27 POPE RD	PORTER		27 POPE RD	#1 Fuel Oil - Kerosene		U	03/21/2001
WINDHAM	P-208-2001	FR	33 CRESENT AVE	MCNULTY		PO BOX 1152	#1 Fuel Oil - Kerosene	200.00	G	03/23/2001
WINDHAM	P-237-2001	FR	FINLEY RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	03/25/2001
WINDHAM	P-232-2001	FR	6 EAGLE DRIVE		C N BROWN	PO BOX 200	#2 Fuel Oil	3.00	G	03/29/2001
WINDHAM	P-252-2001	FR	33 SPEAR AVE	LISEWSKI		33 SPEAR AVE	#2 Fuel Oil	15.00	G	
WINDHAM	P-275-2001	FR	123 VISTA DR	WEBSTER		123 VISTA DR	#1 Fuel Oil - Kerosene	200.00	G	04/06/2001

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WINDHAM	P-450-2001	FR	VISTA DR	RICH		RR1 BOX 569	Transmission Oil	0.20	G	05/22/2001
WINDHAM	P-450-2001	FR	VISTA DR	RICH		RR1 BOX 569	Waste Oil/Used Motor Oil	0.20	G	05/22/2001
WINDHAM	P-450-2001	FR	VISTA DR	RICH		RR1 BOX 569	Unleaded Gasoline	0.50	G	05/22/2001
WINDHAM	P-429-2001	FR	RT 302 & WHITES BRIDGE RD				Unleaded Gasoline	0.50	G	05/28/2001
WINDHAM	P-437-2001	FR	260 SMITH RD	THOMAS		260 SMITH RD	#2 Fuel Oil	2.00	G	05/31/2001
WINDHAM	P-755-2001	FR	1087 ROOSEVELT TRAIL - RT 302	HAYCOCK		1087 ROOSEVELT TRAIL - RT 302	None			
WINDHAM	P-1073-2001	FR	670 ROOSEVELT TRAIL		DOWNEAST ENERGY	34 MANCHESTER DR	Gasoline Unspecified	1.00	G	07/12/2001
WINDHAM	P-575-2001	FR	31 FOREST AVENUE	DOBSON		31 FOREST AVENUE	#1 Fuel Oil - Kerosene	100.00	G	07/22/2001
WINDHAM	P-726-2001	FR	3 PETTENGIL RD	CONNOR		3 PETTENGIL RD	#1 Fuel Oil - Kerosene	1.00	G	09/09/2001
WINDHAM	P-1079-2001	FR	1019 RIVER ROAD		PINE TREE WASTE	33 RIGBY ROAD	Hydraulic Oil	15.00	G	10/24/2001
WINDHAM	P-895-2001	FR	RIVER ROAD	ELDER		RIVER ROAD	Diesel	5.00	P	10/30/2001
WINDHAM	P-923-2001	FR	301 GRAY RD	CARLSON		301 GRAY RD	Waste Oil/Used Motor Oil	0.50	G	11/03/2001
WINDHAM	P-930-2001	FR	20 WALTER PARTRIDGE RD		UNKNOWN CONCRETE TRUCK		Diesel	1.00	G	11/09/2001
WINDHAM	P-934-2001	FR	CHUTE RD NEAR HEMAN COBB RD	STUBBS		381 GRAY RD	Unleaded Gasoline	3.00	G	11/12/2001
WINDHAM	P-961-2001	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	20.00	G	11/21/2001
WINDHAM	P-29-2002	FR	293 FALMOUTH RD	LACHUTO		293 FALMOUTH RD	#2 Fuel Oil	0.25	G	01/11/2002
WINDHAM	P-42-2002	FR	106 HIGHLAND CLIFF ROAD		DOWNEAST ENERGY		#2 Fuel Oil	3.00	G	01/14/2002
WINDHAM	P-93-2002	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	5.00	G	02/08/2002
WINDHAM	P-106-2002	FR	RTS 302 & 202	CRUCH		114 NO MARKET ST	Diesel	25.00	G	02/12/2002

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WINDHAM	P-139-2002	FR	RT 302	BRASIER		COLLINGWOOD CIRCLE	Unleaded Gasoline	15.00	G	02/28/2002
WINDHAM	P-145-2002	FR	15 COLD BEAR DRIVE	LIBBY	DOWNEAST ENERGY	18 SPRING ST	#2 Fuel Oil	1.00	G	03/04/2002
WINDHAM	P-176-2002	FR	377 GRAY RD		WEBBER ENERGY FUELS	488 HOLLIS RD	#2 Fuel Oil	1.00	G	03/07/2002
WINDHAM	P-211-2002	FR	13 PETTINGILL ROAD	HARMON		13 PETTINGILL ROAD	#1 Fuel Oil - Kerosene			
WINDHAM	P-1050-2002	FR	2 MOSES LITTLE DR	TRINGALI		2 MOSES LITTLE DR	#2 Fuel Oil	0.13	G	03/21/2002
WINDHAM	P-1053-2002	FR	46 HIGH ST	ESKILSON		46 HIGH ST	#2 Fuel Oil	0.12	G	04/03/2002
WINDHAM	P-247-2002	FR	9 WARD ROAD	CHAMPAGNE		9 WARD ROAD	#2 Fuel Oil	1.00	G	04/08/2002
WINDHAM	P-374-2002	FR	709 ROOSEVELT TRAIL	LORING	WINDHAM, CITY OF - WINDHAM SCHOOL DEPARTMENT		#2 Fuel Oil	5.00	G	
WINDHAM	P-375-2002	FR	55 HIGH ST	LORING	WINDHAM SCHOOL DEPARTMENT		#2 Fuel Oil	5.00	G	
WINDHAM	P-360-2002	FR	329 ROOSEVELT TR	JOHNSON	WMJ INC	329 ROOSEVELT TR	#1 Fuel Oil - Kerosene	50.00	G	
WINDHAM	P-573-2002	FR	670 ROOSEVELT TR - RT 302		ALLIANCE ENERGY	670 ROOSEVELT TR	Gasoline Unspecified	5.00	G	07/16/2002
WINDHAM	P-557-2002	FR	721 ROOSEVELT TR - RT 302		WINDHAM SCHOOL DEPT	8 SCHOOL RD	#2 Fuel Oil	25.00	G	
WINDHAM	P-1061-2002	FR	RT 302		C N BROWN OIL CO	PO BOX 200	Unleaded Gasoline	1.00	G	
WINDHAM	P-709-2002	FR	RT 302		UNKNOWN VEHICLE		Unleaded Gasoline	4.00	G	09/20/2002
WINDHAM	P-736-2002	FR	EAGLE DR				Gasoline Unspecified			09/22/2002
WINDHAM	P-742-2002	FR	79 ALBION RD	WARDELL		29 ALBION RD	#2 Fuel Oil	1.00	G	10/04/2002
WINDHAM	P-794-2002	FR	157 POPE RD	DENNY		157 POPE RD	#1 Fuel Oil - Kerosene	5.00	G	10/12/2002
WINDHAM	P-822-2002	FR	31 ANGLERS RD		KLEEN OIL CO	85 WARREN AVE	#1 Fuel Oil - Kerosene	1.00	G	10/31/2002

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WINDHAM	P-813-2002	FR	118 ROOSEVELT TRAIL		C N BROWN	118 ROOSEVELT TRAIL	#1 Fuel Oil - Kerosene	4.00	G	10/31/2002
WINDHAM	P-829-2002	FR	SEBAGO LAKE				Waste Oil/Used Motor Oil	2.00	G	
WINDHAM	P-829-2002	FR	SEBAGO LAKE				Unleaded Gasoline	15.00	G	
WINDHAM	P-838-2002	FR	625 ROOSEVELT TRAIL - RT 302	NOKE		625 ROOSEVELT TRAIL	#2 Fuel Oil	2.00	G	11/04/2002
WINDHAM	P-848-2002	FR	MAIN ST. AREA, PRESUMPSCOT RIVER			UNKNOWN	Unleaded Gasoline			11/09/2002
WINDHAM	P-916-2002	FR	17 MALLISON FALLS RD		CORRECTIONS, ME DEPT OF - ME CORRECTIONAL CENTER	17 MALLISON FALLS RD	PCB Oil			12/02/2002
WINDHAM	P-1002-2002	FR	81 HALL RD		RESIDENCE	81 HALL RD	#2 Fuel Oil	1.00	G	
WINDHAM	P-57-2003	FR	68 ANDERSON RD	HARDY		68 ANDERSON RD	#2 Fuel Oil	5.00	G	01/23/2003
WINDHAM	P-68-2003	FR	185 MT HUNGER SHORES RD		C N BROWN	PO BOX 200	#1 Fuel Oil - Kerosene	4.10	G	01/28/2003
WINDHAM	P-119-2003	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	15.00	G	02/19/2003
WINDHAM	P-232-2003	FR	338 SO MAIN ST		C N BROWN	PO BOX 200	#2 Fuel Oil	20.00	G	02/20/2003
WINDHAM	P-168-2003	FR	765 ROOSEVELT TRAIL		DEAD RIVER CO	73 PLEASANT HILL RD	#2 Fuel Oil	5.00	G	02/24/2003
WINDHAM	P-161-2003	FR	134 HAVEN RD	GRAFFAM		134 HAVEN RD	#2 Fuel Oil	120.00	G	02/28/2003
WINDHAM	P-185-2003	FR	45 MONGOMERY RD	GILMAN		45 MONTGOMERY RD	#2 Fuel Oil	1.00	G	03/11/2002
WINDHAM	P-192-2003	FR	RT 302		PENSKE LOGISTICS		Diesel	20.00	G	03/11/2003
WINDHAM	P-300-2003	FR	ROUTE 302 W		UNKNOWN MOTOR VEHICLE OPERATOR		Unleaded Gasoline	5.00	G	04/21/2003
WINDHAM	P-443-2003	FR	ANTHOINE RD		ATLAS AUTOBODY	632 ROOSEVELT TR	None			
WINDHAM	P-384-2003	FR	ROOSEVELT TR - RT 302		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.20	G	05/19/2003

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-471-2003	FR	42 LINNELL RD FORMALLY 27 WINDINGWAY	DOERING		64 WOLCOTT ST	None	0.00	G	
WINDHAM	P-448-2003	FR	RT 202 & WINDHAM CTR RD		UNKNOWN		Waste Oil/Used Motor Oil	1.00	G	
WINDHAM	P-448-2003	FR	RT 202 & WINDHAM CTR RD		UNKNOWN		Anti-freeze	0.50	G	
WINDHAM	P-459-2003	FR	740 GRAY RD		ROYAL OIL COMPANY	2066 BROADWAY	#2 Fuel Oil	2.00	G	
WINDHAM	P-495-2003	FR	401 GRAY RD - RT 202		WINDHAM, TOWN OF	8 SCHOOL RD	Mercury	0.01	P	
WINDHAM	P-549-2003	FR	65 JOHNSON RD		C N BROWN	PO BOX 200	#2 Fuel Oil	2.00	G	
WINDHAM	P-598-2003	FR	809 ROOSEVELT TR		C N BROWN	PO BOX 200	Diesel	0.50	G	
WINDHAM	P-612-2003	FR	727 ROOSEVELT TRAIL		AMATOS (C N BROWN OIL)	727 ROOSEVELT TRAIL	Unleaded Gasoline	4.00	G	
WINDHAM	P-617-2003	FR	13 INDIAN COVE RD	THETFORD		13 INDIAN COVE RD	#1 Fuel Oil - Kerosene			
WINDHAM	P-766-2003	FR	74 SNOWY HILL RD	MOORE		74 SNOWY HILL RD	#2 Fuel Oil	0.25	G	
WINDHAM	P-783-2003	FR	RT 302 & RIVER RD				Unleaded Gasoline	5.00	G	
WINDHAM	P-783-2003	FR	RT 302 & RIVER RD				Anti-freeze			
WINDHAM	P-840-2003	FR	733 GRAY RD				Diesel			
WINDHAM	P-203-2003	FR	415 MAIN ST		WEBBER ENERGY FUELS	415 MAIN ST	#2 Fuel Oil	10.00	G	
WINDHAM	P-881-2003	FR	1 LAMPLIGHTER & JOHNSON RDS	DENSMORE		1 LAMPLIGHTER RD	#1 Fuel Oil - Kerosene	250.00	G	
WINDHAM	P-882-2003	FR	RTS 115 & 202			UNKNOWN ADDRESS	Unleaded Gasoline	5.00	G	
WINDHAM	P-901-2003	FR	100 POPE RD	LEVINE		100 POPE RD	#2 Fuel Oil	75.00	G	
WINDHAM	P-1041-2003	FR	RIVER RD & MALISON FALLS DR	MILLER		PO BOX 118	Unleaded Gasoline	12.00	G	
WINDHAM	P-1138-2003	FR	SWETT RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	7.00	G	
WINDHAM	P-1005-2003	FR	64 VARNEY MILL RD		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.50	G	

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WINDHAM	P-1049-2003	FR	31 OLD COUNTY RD	GRANT			Gasoline Unspecified	5.00	G	
WINDHAM	P-1054-2003	FR	27 MANY OAKS LANE	ROBERTSON		27 MANY OAKS LANE	#1 Fuel Oil - Kerosene	2.00	G	
WINDHAM	P-1072-2003	FR	43 ROLFE RD	TURKINGTON		43 ROLFE RD	#1 Fuel Oil - Kerosene	250.00	G	
WINDHAM	P-1074-2003	FR	670 ROOSEVELT TR - RT 302		DOWNEAST ENERGY	34 MAINCHESTER DR	Unleaded Gasoline	20.00	G	
WINDHAM	P-1078-2003	FR	15 ERIC RD		UNION OIL	63 OCEAN ST	#2 Fuel Oil	2.00	G	
WINDHAM	P-16-2004	FR	201 TANDBERG TR				Diesel	10.00	G	
WINDHAM	P-49-2004	FR	38 SNOWY RIDGE RD		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	0.50	G	
WINDHAM	P-55-2004	FR	RT 302				Unleaded Gasoline	1.00	G	
WINDHAM	P-62-2004	FR	340 MT HUNGER SHORES RD	BLACKMAN		SUMMER ST	#2 Fuel Oil	1.00	G	
WINDHAM	P-84-2004	FR	5 MACINTOSH LN		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.50	G	
WINDHAM	P-104-2004	FR	RIVER & RIDGE RDS		LAMPRON ENERGY INC	435 OSSIPPEE TR	Diesel			
WINDHAM	P-100-2004	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	50.00	G	
WINDHAM	P-99-2004	FR	2 DALTON PINES - OFF RT302	DUNTON		23 DUNRIDGE CIRCLE	#1 Fuel Oil - Kerosene			
WINDHAM	P-156-2004	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	15.00	G	
WINDHAM	P-170-2004	FR	139 SANDBAR RD	KEONIG		19 SANDBAR RD	#2 Fuel Oil	1.00	G	
WINDHAM	P-188-2004	FR	36 SHORE RD	OVINGTON		36 SHORE RD	#2 Fuel Oil	0.10	G	
WINDHAM	P-202-2004	FR	62 NASH RD	WILLIAMS		62 NASH RD	#2 Fuel Oil	2.00	G	
WINDHAM	P-301-2004	FR	RT 302	BASSINETTE	MMP AUTO	RT 302	Oil - Other - Specified in Report			
WINDHAM	P-233-2004	FR	12-14 COLLINS POND RD	MYER			Oil - Other - Specified in Report			

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WINDHAM	P-312-2004	FR	41 COOK RD	NEILSEN		41 COOK RD	#2 Fuel Oil	5.00	G	
WINDHAM	P-474-2004	FR	397 ROOSEVELT TR		INTERSTATE BATTERY CORP	12770 MERIT DR	Sulfuric Acid			
WINDHAM	P-475-2004	FR	22 HAVEN RD		REYNOLDS & SON DISPOSAL	PO BOX 1092	Hydraulic Oil	10.00	G	
WINDHAM	P-472-2004	FR	11 BURDEEN RD		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.10	G	
WINDHAM	P-897-2004	FR	ROOSEVELT TR - RT 302		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.50	G	
WINDHAM	P-527-2004	FR	RT 302 - 361 ROOSEVELT TR		TRANSPORTATIO N, ME DEPT OF	16 STATE HOUSE STATION	Gasoline Unspecified			
WINDHAM	P-557-2004	FR	809 ROOSEVELT TR		C N BROWN - BIG APPLE NO WINDHAM MOBIL	809 ROOSEVELT TR	Unleaded Gasoline	25.00	G	
WINDHAM	P-581-2004	FR	FRANKLIN DRIVE	CROOK			Hazardous Chemical - Specified in report	0.00	G	
WINDHAM	P-686-2004	FR	755 GRAY RD		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	2.00	G	
WINDHAM	P-746-2004	FR	12 WILLIAM KNIGHT RD	SMALL		12 WILLIAM KNIGHT RD	#2 Fuel Oil			
WINDHAM	P-793-2004	FR	76 COTTAGE RD	HELMER		18 COASTAL DR	#1 Fuel Oil - Kerosene	100.00	G	
WINDHAM	P-809-2004	FR	175 COTTAGE RD	NICKERSON		175 COTTAGE RD	#2 Fuel Oil			
WINDHAM	P-862-2004	FR	35 WOODLAND RD	CURRAN		35 WOODLAND RD	#1 Fuel Oil - Kerosene	0.10	G	
WINDHAM	P-935-2004	FR	149 VARNEY MILL RD	EMERSON		149 VARNEY MILL RD	#2 Fuel Oil	20.00	G	
WINDHAM	P-1083-2004	FR	RIVER RD	FOSTER			None			
WINDHAM	P-1113-2004	FR	709 GRAY RD	CONLEY		709 GRAY RD	#2 Fuel Oil	0.10	G	
WINDHAM	P-1130-2004	FR	809 ROOSEVELT TRAIL		C N BROWN	PO BOX 200	Unleaded Gasoline	1.50	G	
WINDHAM	P-48-2005	FR	227 MAIN ST	RAYNOR		227 MAIN ST	#2 Fuel Oil	2.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-56-2005	FR	RT 302 & RIVER RD		ALLIANCE ENERGY CORP	36 EAST INDUSTRIAL RD	Unleaded Gasoline	10.00	G	
WINDHAM	P-77-2005	FR	32 WOLDBROOK DR	WILSON		32 WOLDBROOK DR	#2 Fuel Oil	0.10	G	
WINDHAM	P-96-2005	FR	8 BIMMER DR		GAGNONS HEATING	PO BOX 814	#2 Fuel Oil	1.00	G	
WINDHAM	P-131-2005	FR	119 EVERGREEN LN	LEFEVERE		119 EVERGREEN LN	#2 Fuel Oil	0.25	G	
WINDHAM	P-122-2005	FR	32 WOLDBROOK DR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.10	G	
WINDHAM	P-167-2005	FR	155 VARNEY MILL RD		C N BROWN	PO BOX 200	#2 Fuel Oil	0.10	G	
WINDHAM	P-172-2005	FR	84 LINNELL RD		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.10	G	
WINDHAM	P-198-2005	FR	WOLD BROOK RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil			
WINDHAM	P-190-2005	FR	WOLDBROOK DR		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	2.00	G	
WINDHAM	P-218-2005	FR	201 TANDBERG TR - RT 15		LAMPRON ENERGY INC	435 OSSIPPEE TR	Unleaded Gasoline			
WINDHAM	P-218-2005	FR	201 TANDBERG TR - RT 15		LAMPRON ENERGY INC	435 OSSIPPEE TR	Hydraulic Oil	3.00	G	
WINDHAM	P-227-2005	FR	2 WHISPERING PINES DR	HARRIS		2 WHISPERING PINES DR	#2 Fuel Oil	20.00	G	
WINDHAM	P-273-2005	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	5.00	G	
WINDHAM	P-296-2005	FR	13 DEPOT ST	KITTRELL		13 DEPOT ST	Waste Oil/Used Motor Oil			
WINDHAM	P-296-2005	FR	13 DEPOT ST	KITTRELL		13 DEPOT ST	Sulfuric Acid			
WINDHAM	P-290-2005	FR	249 ROOSEVELT TR - RTS 302 & 35		CUMBERLAND FARMS INC	777 DEDHAM ST	Diesel	2.00	G	
WINDHAM	P-290-2005	FR	249 ROOSEVELT TR - RTS 302 & 35		CUMBERLAND FARMS INC	777 DEDHAM ST	Unleaded Gasoline			
WINDHAM	P-387-2005	FR	RT 202 & FALMOUTH RD				None			
WINDHAM	P-384-2005	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	2.00	G	
WINDHAM	P-381-2005	FR	183 COTTAGE RD	CHANDLER		183 COTTAGE RD	#2 Fuel Oil	1.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-401-2005	FR	BETTY LN	WAXLER		PO BOX 5681	#2 Fuel Oil			
WINDHAM	P-452-2005	FR	3 CHESTNUT AVE	CLARK		3 CHESTNUT AVE	#2 Fuel Oil	0.50	G	
WINDHAM	P-844-2005	FR	36 GAMBO RD	MERRY		36 GAMBO RD	None			
WINDHAM	P-490-2005	FR	68 B VARNEY MILL RD		KLEEN OIL KO	WARREN AVE	#2 Fuel Oil	2.00	G	
WINDHAM	P-868-2005	FR	7 DEPOT ST		VILLAGE AT LITTLE FALLS LLC	2 MARKET ST - 6TH FLOOR	PCB Oil	35.00	G	
WINDHAM	P-553-2005	FR	RIVER RD END				Oil - Other - Specified in Report	20.00	G	
WINDHAM	P-528-2005	FR	746 ROOSEVELT TRAIL		WEBBER ENERGY FUELS	488 HOLLIS RD	Unleaded Gasoline	10.00	G	
WINDHAM	P-576-2005	FR	12 BEACH RD	SANBORN		12 BEACH RD	#2 Fuel Oil	0.50	G	
WINDHAM	P-599-2005	FR	RTE. 35 & RTE. 302				Hydraulic Oil			
WINDHAM	P-598-2005	FR	816 ROOSEVELT TRAIL				Unleaded Gasoline	1.00	G	
WINDHAM	P-852-2005	FR	201 TANDBERG TR				Gasoline Unspecified	12.00	G	
WINDHAM	P-691-2005	FR	690 RIVER RD	PHILPOT		690 RIVER RD	#2 Fuel Oil	1.00	G	
WINDHAM	P-731-2005	FR	125 WINDHAM CENTER RD	JOY		125 WINDHAM CENTER RD	#2 Fuel Oil	1.00	G	
WINDHAM	P-887-2005	FR	RIVER RD & RT 302		UNKNOWN		Unleaded Gasoline	4.00	G	
WINDHAM	P-889-2005	FR	6 JEFFREY WOODS RD	ARMSTRONG		6 JEFFREY WOODS RD	#2 Fuel Oil	0.25	G	
WINDHAM	P-1000-2005	FR	305 BRIDGTON RD	RICHARD		305 BRIDGTON RD	#2 Fuel Oil	2.00	G	
WINDHAM	P-1067-2005	FR	FALMOUTH RD AT NASH RD		UNSPECIFIED MOTOR VEHICLE		Unleaded Gasoline	10.00	G	
WINDHAM	P-15-2006	FR	778 ROOSEVELT TR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	1.00	G	
WINDHAM	P-48-2006	FR	OLD COUNTY RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-1093-2006	FR	10 LAKE AVENUE		DOWNEAST ENERGY	34 MANCHESTER DRIVE	Waste Oil/Used Motor Oil	1.00	G	
WINDHAM	P-109-2006	FR	12 KOORBANO LN		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	1.00	G	
WINDHAM	P-110-2006	FR	45 POPE RD	MILLIKEN		45 POPE RD	#2 Fuel Oil	0.06	G	
WINDHAM	P-260-2006	FR	799 ROOSEVELT TR		THE HOME DEPOT	799 ROOSEVELT TR	Oil - Other - Specified in Report	0.25	G	
WINDHAM	P-303-2006	FR	631 GRAY ROAD		YORKIE OIL CO	154 PLEASANT HILL RD	#2 Fuel Oil	0.50	G	
WINDHAM	P-321-2006	FR	51 ROOSEVELT TRAIL	WOLSTENHULM		51 ROOSEVELT TRAIL	None			
WINDHAM	P-339-2006	FR	20 FRANKLIN DRIVE		HOME DEPOT	20 FRANKLIN DR	Unleaded Gasoline	0.25	G	
WINDHAM	P-404-2006	FR	ANDERSON ST		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
WINDHAM	P-415-2006	FR	20 FRANKLIN DR		THE HOME DEPOT	20 FRANKLIN DR	Asphalt	0.01	G	
WINDHAM	P-527-2006	FR	20 FRANKLIN DR		THE HOME DEPOT	20 FRANKLIN DR	Oil - Other - Specified in Report	0.25	G	
WINDHAM	P-485-2006	FR	799 ROOSEVELT TR		THE HOME DEPOT	799 ROOSEVELT TR	Hazardous Chemical - Specified in report	0.30	G	
WINDHAM	P-640-2006	FR	15 WEAHTERVANE DR	FOSTER		9 WEATHERVANE DR	Hazardous Chemical - Unspecified			
WINDHAM	P-529-2006	FR	20 FRANKLIN DR		THE HOME DEPOT	20 FRANKLIN DR	Corrosive	0.13	G	
WINDHAM	P-556-2006	FR	81 SANDBAR RD		ATLAS AUTO BODY	632 ROOSEVELT TR	Hydraulic Oil	1.00	G	
WINDHAM	P-619-2006	FR	RIGHT OF WAY		UNKNOWN/UNREGISTERED		Waste Oil/Used Motor Oil	2.00	G	
WINDHAM	P-605-2006	FR	968 ROOSEVELT DR				Unleaded Gasoline	2.00	G	
WINDHAM	P-1069-2006	FR	4 LAND OF NOD ROAD		PINE TREE WASTE	87 PLEASANT HILL RD	Hydraulic Oil			
WINDHAM	P-702-2006	FR	BETTY LANE				#1 Fuel Oil - Kerosene	100.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-705-2006	FR	RT 302		UNSPECIFIED MOTOR VEHICLE		Unleaded Gasoline	5.00	G	
WINDHAM	P-759-2006	FR	ROUTE 302	DEPOT		ROUTE 302	Hazardous Chemical - Specified in report	0.50	G	
WINDHAM	P-828-2006	FR	22 SWAN ROAD	BRIDGES		22 SWAN ROAD	#1 Fuel Oil - Kerosene	2.00	G	
WINDHAM	P-780-2006	FR	VARNEY MILL ROAD		PIKE INDUSTRIES	145 RIVER ROAD	Hydraulic Oil	10.00	G	
WINDHAM	P-787-2006	FR	RIVER ROAD		BELANGER GARAGE	154 RIVER RD	None			
WINDHAM	P-801-2006	FR	663 ROOSEVELT TRAIL, RT 302		GETTY PETROLEUM	141 MAIN ST	Gasoline Unspecified			
WINDHAM	P-801-2006	FR	663 ROOSEVELT TRAIL, RT 302		GETTY PETROLEUM	141 MAIN ST	Waste Oil/Used Motor Oil			
WINDHAM	P-843-2006	FR	HILLSIDE DR		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	10.00	G	
WINDHAM	P-936-2006	FR	NORTH WINDHAM SHOPPING PLAZA		PET QUARTERS	765 ROOSEVELT TRAIL #19	#2 Fuel Oil	1.00	G	
WINDHAM	P-915-2006	FR	30 HARVEST HILL ROAD	ELLIS		SEBAGO HEIGHTS, 30 HARVEST HILL ROAD	#2 Fuel Oil	5.00	G	
WINDHAM	P-1035-2006	FR	9 GRASSINGTON ROAD	SHAW		9 GRASSINGTON ROAD	#1 Fuel Oil - Kerosene	0.50	G	
WINDHAM	P-993-2006	FR	VARNEY MILL RD AT ROOSEVELT TRAIL				Unleaded Gasoline	10.00	G	
WINDHAM	P-107-2007	FR	148 CHUTE RD	LOTHROP		148 CHUTE RD	#2 Fuel Oil	0.10	G	
WINDHAM	P-50-2007	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#1 Fuel Oil - Kerosene	30.00	G	
WINDHAM	P-143-2007	FR	16 RIVER ROAD	LEBREQUE		16 RIVER RD.	#2 Fuel Oil	0.01	G	
WINDHAM	P-82-2007	FR	114 MAIN STREET		CROSSROADS FOR WOMEN	114 MAIN STREET	#2 Fuel Oil	0.10	G	
WINDHAM	P-137-2007	FR	18 CRESCENT AVE		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	0.50	G	
WINDHAM	P-140-2007	FR	52 OUTLET COVE RD	NIBOLI		52 OUTLET COVE RD	#2 Fuel Oil	0.10	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-209-2007	FR	WEBB ROAD, POLE 18		CENTRAL MAINE POWER	83 EDISON DRIVE	Transformer Oil	1.00	G	
WINDHAM	P-233-2007	FR	33 RIVER RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil			
WINDHAM	P-324-2007	FR	809 TO 828 GRAY RD, ROUTE 202		MYSTERY GASOLINE DISCHARGE	828 - 809 ROUTE 202, GRAY RD	Leaded Gasoline	500.00	G	
WINDHAM	P-352-2007	FR	682 ROOSEVELT TRAIL [ROUTE 302]	KOSLOWSKY	SAMMY'S LUBE EXPRESS	682 ROOSEVELT TRAIL	Waste Oil/Used Motor Oil	50.00	G	
WINDHAM	P-433-2007	FR	35 MAIN STREET		MAINE CEDAR LOG HOMES REALTY INC	33 MAINE STREET	Gasoline Unspecified			
WINDHAM	P-472-2007	FR	ROOSEVELT TRAIL				Unleaded Gasoline	2.00	G	
WINDHAM	P-521-2007	FR	765 ROOSEVELT TRAIL	RAY		57 FORESIDE RD	#2 Fuel Oil	0.00	G	
WINDHAM	P-554-2007	FR	ROUTE 302 ROTARY		C N BROWN	PO BOX 200	Gasoline Unspecified			
WINDHAM	P-608-2007	FR	185 WINDHAM CENTER RD		WINDHAM, TOWN OF	8 SCHOOL ROAD	Unleaded Gasoline	5.00	G	
WINDHAM	P-646-2007	FR	11 INLAND FARM RD	MCDONALD		40 INLAND FARM RD	Non-Chemical Non-Oil Specified in report	10.00	P	
WINDHAM	P-702-2007	FR	971 RIVER RD		C.A.T. ENTERPRISE	971 RIVER RD	Waste Oil/Used Motor Oil			
WINDHAM	P-707-2007	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	2.00	G	
WINDHAM	P-966-2007	FR	31 LANTERN LANE		C N BROWN	PO BOX 200	#2 Fuel Oil	1.50	G	
WINDHAM	P-743-2007	FR	61 PETTINGILL POND RD	BULLERWELL		61 PETTINGILL POND RD.	#2 Fuel Oil	0.02	G	
WINDHAM	P-872-2007	FR	RT 202				Transformer Oil	1.00	G	
WINDHAM	P-806-2007	FR	NEWHALL RD				Unleaded Gasoline	2.00	G	
WINDHAM	P-818-2007	FR	51 CRESCENT AVE	SILVA		51 CRESCENT AVE	#2 Fuel Oil	0.03	G	
WINDHAM	P-882-2007	FR	7 CARRIAGE HILL RD	MCLEOD		7 CARRIAGE HILL RD	#2 Fuel Oil	0.10	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-5-2008	FR	4 THORNBERRY WAY	GRAHAM		4 THORNBERRY WAY	#1 Fuel Oil - Kerosene	0.50	G	
WINDHAM	P-32-2008	FR	537 RIVER RD	SPEAR		537 RIVER ROAD	#1 Fuel Oil - Kerosene	0.25	G	
WINDHAM	P-66-2008	FR	2 LAMB ST		WEBBER ENERGY FUELS	27 MAIN ST	#2 Fuel Oil	2.00	G	
WINDHAM	P-88-2008	FR	201 TANDBERG TRAIL, ROUTE 115		LAMPRON ENERGY GULF (NOURIA ENERGY)	201 TANDBERG TRAIL	#1 Fuel Oil - Kerosene	15.00	G	
WINDHAM	P-115-2008	FR	132 VISTA DRIVE	WEBSTER		132 VISTA DRIVE	#1 Fuel Oil - Kerosene	200.00	G	
WINDHAM	P-194-2008	FR	22 PHEASANT RIDGE DR	AFTHIM		22 PHEASANT RIDGE DR	#2 Fuel Oil	0.25	G	
WINDHAM	P-305-2008	FR	751 ROOSEVELT TRAIL (RT 302)		CUMBERLAND FARMS, GULF 1836	777 DEDHAM ST	Unleaded Gasoline	3.00	G	
WINDHAM	P-325-2008	FR	34 MANCHESTER DR		DOWNEAST ENERGY	34 MANCHESTER DR	#2 Fuel Oil	2.00	G	
WINDHAM	P-443-2008	FR	ROOSEVELT TRAIL, RT 302		C N BROWN	PO BOX 200	None			
WINDHAM	P-347-2008	FR	18 BRIG ISLAND COVE RD		UNSPECIFIED MOTOR VEHICLE		Unspecified Oil	1.00	G	
WINDHAM	P-494-2008	FR	WHITE'S BRIDGE RD	DOUGHTY		LOWER NARROWS	Hydraulic Oil	0.50	G	
WINDHAM	P-385-2008	FR	54 COLLINWOOD CIRCLE	WICKHAM		54 COLLINWOOD CIRCLE	#1 Fuel Oil - Kerosene	1.00	G	
WINDHAM	P-441-2008	FR	PAGE RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.50	G	
WINDHAM	P-708-2008	FR	693 ROOSEVELT TRAIL		OFFICE BUILDING	693 ROOSEVELT TRAIL	Unspecified Oil			
WINDHAM	P-785-2008	FR	114 BROWN COVE RD	BRISK		114 BROWN COVE RD	Waste Oil/Used Motor Oil	0.50	G	
WINDHAM	P-796-2008	FR	240 POPE RD		DEAD RIVER CO	63 OCEAN ST	#2 Fuel Oil	3.00	G	
WINDHAM	P-834-2008	FR	HUNGER SHORE ROAD BOAT LAUNCH				None			

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-1200-2008	FR	79 HIGLAND SHORE ROAD		DEAD RIVER CO	50 CHARLES ST	#2 Fuel Oil	0.25	G	
WINDHAM	P-1062-2008	FR	BRICK HILL RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	20.00	G	
WINDHAM	P-1171-2008	FR	WARD ROAD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	0.50	G	
WINDHAM	P-11-2009	FR	ROUTE 202		UNKNOWN		None			
WINDHAM	P-47-2009	FR	37 PRESUMPSCOT RD		LUTHERAN COMMUNITY SERVICES	39 MECHANIC ST	#2 Fuel Oil	2.00	G	
WINDHAM	P-119-2009	FR	81 NORTHWOOD DRIVE		PRIVATE RESIDENCE	15 NORTHWOOD DRIVE	#2 Fuel Oil	1.00	G	
WINDHAM	P-108-2009	FR	76 NASH RD	MALINOWITZ		76 NASH RD	#2 Fuel Oil	2.00	G	
WINDHAM	P-164-2009	FR	312 GRAY RD	RILEY		1 SHANE'S WAY	#1 Fuel Oil - Kerosene	250.00	G	
WINDHAM	P-312-2009	FR	746 ROOSEVELT TRAIL & STANDISH RD		IRVING OIL INC.	190 COMMERCE WAY	Gasoline Unspecified			
WINDHAM	P-313-2009	FR	64 TANDBERG TRAIL (RT 35)		STEINERT ENERGY CO	64 TANDBERG TRAIL	None			
WINDHAM	P-369-2009	FR	31 ROLFE ROAD	RIDDELL		31 ROLFE ROAD	#1 Fuel Oil - Kerosene	0.50	G	
WINDHAM	P-449-2009	FR	RT 302 @ 750 ROOSEVELT TRAIL		TRUCK LEAK - RP UNIDENTIFIED	UNKNOWN RP ADDRESS	Unleaded Gasoline	10.00	G	
WINDHAM	P-42-2010	FR	8 LAURA DR		HOLLY'S HEATING OIL	380 MAIN ST	#2 Fuel Oil	0.50	G	
WINDHAM	P-80-2010	FR	20 CAJUN COURT	FEENSTRA	OUR OIL L.L.C.	20 ALTON STREET	#2 Fuel Oil	2.00	G	
WINDHAM	P-308-2010	FR	ANGLERS ROAD				#2 Fuel Oil	3.00	G	
WINDHAM	P-379-2010	FR	28 PROSPERITY LANE	JOHNSON		28 PROSPERITY LANE	#2 Fuel Oil	0.25	G	
WINDHAM	P-445-2010	FR	8 ALBION ROAD	PREBLE		8 ALBION ROAD	#2 Fuel Oil	6.00	O	
WINDHAM	P-882-2010	FR	MOUNT HUNGER SHORE RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	3.00	G	
WINDHAM	P-1052-2010	FR	1 MECHANIC ST		U.S. BANK N.A.	60 LIVINGSTON AVENUE	#2 Fuel Oil	20.00	G	

MCD	SPILL #	STATUS	LOCATION	LAST_NAME	COMPANY	ADDRESS	PRODUCT	AMOUNT	UNIT	SPILL DATE
WINDHAM	P-12-2011	FR	24 READ STREET		HOLLY'S HEATING OIL	380 MAIN ST	#2 Fuel Oil	1.00	G	
WINDHAM	P-731-2011	FR	POLE 7 ROLFE ROAD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil			
WINDHAM	P-864-2011	FR	32 BROWN COVE ROAD		PINE TREE WASTE SERVICES	30 ELM ST	Anti-freeze	6.00	G	
WINDHAM	P-919-2011	FR	CHUTE RD		CENTRAL MAINE POWER	83 EDISON DR	Transformer Oil	1.00	G	
WINDHAM	P-155-2012	FR	RTE 202		CON-WAY FREIGHT	7 GINN ROAD	Waste Oil/Used Motor Oil	5.00	G	
WINDHAM	P-155-2012	FR	RTE 202		CON-WAY FREIGHT	7 GINN ROAD	Transmission Oil	3.00	G	
WINDSOR	A-330-1986	FR			UNKNOWN		Waste Oil/Used Motor Oil			09/22/1986
WINDSOR	A-391-1986	FR			CENTRAL MAINE POWER		Transformer Oil	8.00	G	
WINDSOR	A-407-1986	FR			BRIDGE CONSTRUCTION CORP	PO BOX 33	None	0.00	G	10/27/1986
WINDSOR	A-51-1987	FR		NUTTER		RFD BOX 3130	#1 Fuel Oil - Kerosene	10.00	G	
WINDSOR	A-403-1987	FR		BROWN		362 RIVERSIDE DRIVE	#2 Fuel Oil	60.00	G	11/13/1987
WINDSOR	A-422-1987	FR			OAKHURST DAIRY		Diesel	30.00	G	11/27/1987
WINDSOR	A-284-1988	FR		BROWN		P.O. BOX 200	Gasoline Unspecified			
WINDSOR	A-342-1988	FR			BROWN, C.N.	PO BOX 200	Gasoline Unspecified	20.00	G	
WINDSOR	A-60-1989	FR			C.N.BROWN/BRIDGE CONSTRUCTION	P.O. BX. 200	#2 Fuel Oil	5.00	G	02/09/1989
WINDSOR	A-87-1990	FR			HUSSEY GENERAL STORE	P.O. BOX 81	Gasoline Unspecified		G	
WINDSOR	A-215-1990	FR			GABOURY,JAMES/ KENNEBEC TANNING	BX 27	None	0.00	G	

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-1015-2002**

Spill Report Information

Spill Number:	P-1015-2002
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	Gasoline Unspecified {20} - 5.00 ESTIMATE
Subject/Owner:	LAMPRON ENERGY OIL CO - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	07/22/2002

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	UST Tank Anomaly

Reported Date/Time

Reported Date/Time:	07/22/2002 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY OIL CO 435 OSSIPEE TRAIL RT 25 GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MINI MART GULF
Street Address:	688 GRAY RD - RT 202
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842661.08 UTM East 385190.59
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Engineered Containment {E}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 5.00 ESTIMATE (Primary Product)
Material Recovered:	Unspilled Product {VP} - 5.00 gals. ESTIMATE
Recovery/Treatment Method:	Pumps {B}
Cleanup DTREE:	
Disposal Information:	waste re-used.

IV. NARRATIVE

Report of 7/22/02, concerning the leak of gasoline into the interstitial space of a UST at this facility. No discharge outside the tank was reported. Investigated by Maine CTI Bill Carver. Further actions turned over to DEP BRWM Tanks Enforcement Unit for resolution. See DEP UST Reg. file#13451 for further information.

S G Brezinski

V.ATTACHMENTS

Attachment Type	**Description**
Paper Attach	E-mail from Steve Brezinski dated 7/31/02 including site map

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-1052-2010**

Spill Report Information

Spill Number:	P-1052-2010
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	JOHN R LUONGO JR
Primary Product:	#2 Fuel Oil {02} - 20.00 ESTIMATE
Subject/Owner:	U.S. BANK N.A. - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Mechanical Failure - Loose Fitting

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Citizen Complaint {3}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	12/17/2010 00:00

Other Contact

Contact:	TIFFANY HAMPTON-BROKER-CENTURY 21 SAMIA REAL ESTATE 547 MAIN STREET WESTBROOK ME 04092 USA
Comment:	

Other Contact

Contact:	PATTY ROSS-OWNER-SUNSET HARBOR PROPERTY PRESERVATION PO BOX OLD ORCHARD BEACH ME 04064 USA
Comment:	

Other Contact (Potential Responsible Party)

Contact:	CHARLES PETERSON-MANAGER-U.S.BANK N.A. 60 LIVINGSTON AVENUE ST. PAUL MN 55107 USA
Comment:	

Other Contact (Potential Responsible Party)

Contact:	PETER HUTCHINSON-MANAGER-FIELD ASSET SERVICES 101 WEST LOUIS HENNA BOULEVARD AUSTIN TX 78728 USA

Comment:

Subject/Spiller (Potential Responsible Party)

Contact:	U.S. BANK N.A. 60 LIVINGSTON AVENUE ST. PAUL MN 55107 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	JOHN R LUONGO JR (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Multi Family {MF}
Name:	U.S. BANK N.A., TRUSTEE
Street Address:	1 MECHANIC ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Interior Surface {S} Land {L}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 20.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.00 UNKNOWN Mixed Liquid Media {MM} - 25.00 gals. ESTIMATE Contaminated Soil {CS} - 10.00 lbs. ESTIMATE
Recovery/Treatment Method:	Other {J} Excavation {G} Sorbents {C}
Cleanup DTREE:	
Disposal Information:	Materials disposed of by ENPRO Services.

IV. NARRATIVE

An estimated 20 gallons of #2 fuel oil leaked from a 275-gallon Aboveground Storage Tank (AST) located in the basement of the residence. The leak was caused by a loose fitting located at the filter assembly on the AST. Impacted concrete floor surfaces were cleaned using sorbents and degreaser. In addition, a small area of the dirt floor portion of the basement was impacted and approximately two (2) 5-gallon pails of impacted soil were removed from this area. Several pieces of impacted wood debris were removed and discarded.

The release was reported to the Maine Department of Environmental Protection (MEDEP) on 12/17/2010. Numerous attempts were made by the MEDEP to inform the responsible parties that the release required immediate mitigation. On February 8, 2011, a Notice of Violation was issued by the MEDEP for failure to mitigate the release (attached). On 2/14/2011 mitigation began and was completed to the satisfaction of the MEDEP. No further action by the MEDEP, Division of Response Services, is expected at this time.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Notice of Violation 2011-009-0

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-1053-2002**

Spill Report Information

Spill Number:	P-1053-2002
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	NATHAN THOMPSON
Primary Product:	#2 Fuel Oil {02} - 0.12 ESTIMATE
Subject/Owner:	- BILL ESKILSON -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Mechanical Failure - Loose Fitting

Spill Date/Time

Spill Date/Time:	04/03/2002 00:00

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	04/03/2002 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	BILL ESKILSON- 46 HIGH ST WINDHAM ME 04062 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	NATHAN THOMPSON (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	BILL ESKILSON
Street Address:	46 HIGH ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 0.12 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.12 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	sorbents entered into Downeast Energy waste stream.

IV. NARRATIVE

4.3.02, No DEP response, phone contact indicates satisfactory clean up. Fire-matic valve on tank was leaking and replaced during service call. Spill to concrete floor cleaned up with sorbent pads.

No further Response action warranted.
Nathan Thompson, SMRO

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	DEP Initial Spill Report Form

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-1074-2008**

Spill Report Information

Spill Number:	P-1074-2008
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	JOHN R LUONGO JR
Primary Product:	#2 Fuel Oil {02} - 2.00 ESTIMATE
Subject/Owner:	- DWAYNE SAINTORES - HOMEOWNER

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Mechanical Failure - Other

Spill Date/Time

Spill Date/Time:	11/26/2008

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Odor/Vapor/Mist

Reported Date/Time

Reported Date/Time:	11/26/2008 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	DWAYNE SAINTORES-HOMEOWNER- 771 GRAY ROAD GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	JOHN R LUONGO JR (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	RESIDENCE
Street Address:	771 GRAY ROAD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L} Interior Surface {S}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 2.00 ESTIMATE (Primary Product)
Material Recovered:	Spilled Product {SP} - 2.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	DEP

IV. NARRATIVE

A flooded basement caused the furnace to shut down and inturn caused approximately 2 gallons of #2 fuel oil to leak from the burner unit. pads were deployed to absorb the floating product. Absorbent materials were disposed of by the DEP. No further Response action is expected at this time.

V.ATTACHMENTS

None

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-130-2011**

Spill Report Information

Spill Number:	P-130-2011
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	FRANKI B DELANEY
Primary Product:	#1 Fuel Oil - Kerosene {01} - 214.00 ESTIMATE
Subject/Owner:	- LORRAINE L JONASSEN - HOMEOWNER

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Accident - Other

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	02/21/2011 00:00

Other Contact

Contact:	ALLSTATE ENVIRONMENTAL SERVICES, INC. PO BOX 291 GORHAM ME 04038
Comment:	

Subject/Spiller (Potential Responsible Party)

Contact:	LORRAINE L. JONASSEN-HOMEOWNER- 859 GRAY ROAD GORHAM ME USA
Comment:	

Primary Responder and Other Employees

Contact(s):	FRANKI B DELANEY (Primary Responder) PETER M EREMITA
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	LORRAINE JONASSEN

Street Address:	859 GRAY ROAD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME
Spill Point	
Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#1 Fuel Oil - Kerosene {01}
Products Found/Amount Spilled:	#1 Fuel Oil - Kerosene {01} - 214.00 ESTIMATE (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 20.43 tons ESTIMATE
Recovery/Treatment Method:	Vacuum Trucks {A} Excavation {G}
Cleanup DTREE:	
Disposal Information:	Disposed of contaminated snow and soil.

IV. NARRATIVE

February 22, 2011 I received a phone call from Downeast Energy. They were reporting that 214 gallons of #1 oil had leaked from a filter on an aboveground storage tank (AST) at 859 Gray Road in Gorham.
I reported to the site and met with Downeast Energy and Lorraine Jonassen, the homeowner. Ms Jonassen explained to me that she had the snow on her roof shoveled off around the same time that he monitor started malfunctioning. Downeast Energy explained that when they arrived at the site, there was a mound of snow piled on top of the filter of the AST. A filter protection was covering the filter however the amount of snowed dropped on top of it caused the filter to still snap off the AST. It was estimated that 214 gallons of K-1 had leaked into the ground. I called AllState Environmental to begin the clean up on February 23, 2011. Downeast Energy set up a temporary AST for Ms Jonassen.
February 24, 2011 I arrived at the site with AllState Environmental to begin to the removal of contaminated snow and soil. We dug until we reached groundwater. We removed 20.43 tons of contaminated soil and disposed of it at Commercial Paving and Recycling (CPRC) in Scarborough. We suspended work until February 25, 2011 when Pete Eremita, an engineer with the Technical Services for the Maine Department of Environmental Protection (DEP) could access the scene.
February 25, 2011 I inspected the site with Mr. Eremita and determined that two recovery wells will be installed and a trailer will be assist in pumping the oil from the wells and discharging clean water. Mr. Eremita continued with the clean up. No further action was taken by DEP Response Divison.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Spill Debris.
Paper Attach	CPRC.
Electronic Form	Expense Tracking

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-204-2010**

Spill Report Information

Spill Number:	P-204-2010
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	None {00} - 0.00
Subject/Owner:	- RONALD MESERVE -

I. EVENT

Spill Info

Type:	Non-Oil, Non-Hazardous Incident
Source:	No Source Found By Responder
Cause:	Other - Known Cause

Spill Date/Time

Spill Date/Time:	03/11/2010

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Other

Reported Date/Time

Reported Date/Time:	03/16/2010 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	RONALD MESERVE- 8 NEWELL STREET GROHAM ME 04038 USA
Comment:	

Other Contact

Contact:	TEDDY BEAR DAYCARE 8 NEWALL ST GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Other {OR}
Name:	MESERVE RESIDENCE/DAY CARE
Street Address:	8 NEWELL ST & GRAY RD

MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME
Spill Point	
Spill Point:	UTM North 4842694.54 UTM East 385140.78
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Undefined

III. CLEANUP

Product Reported:	Sulfuric Acid {72}
Products Found/Amount Spilled:	None {00} - 0.00 (Primary Product)
Material Recovered:	None {NO} - 0.00 gals. ESTIMATE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	unknown at present

IV. NARRATIVE

3/16/10: Gorham Fire Chief Ken Fickett reported that on 3/11/10, they responded to a structure fire at the Meserve residence and location of the Teddy Bear Daycare. The chief reported car batteries, waste oil onsite (heating oil tanks outside and in the basement can also be of great concern). I called Mr. Meserve for information and to ask him to meet me onsite but never received a return call.

3/19/10: I visited the site in late morning, found no one onsite but evidence of recent demolition of the debris; there were no warning signs or caution tape. The area is dense residential and commercial use located at the traffic circle for routes 237 and 202, and is served by municipal water. Walking around the property I noted at least four unsecured lead-acid auto batteries, several burned vehicles but no obvious evidence of oil discharges. There was an old 275-gallon heating oil aboveground storage tank in the wetland area that looked long out-of-service. There was one empty 55-gallon drum and another drum I could not get to to check because of water and debris. I labeled the batteries as hazardous. I called Darlene (wife or daughter?) and left a message but again got no return call.

The batteries could have been disposed of as household hazardous waste since they were not from commercial vehicles. Any waste oil or heating oil appears consumed in the fire, or hauled offsite prior to my visit. As I noted no discharges to soil or surface water I recommend no further Response Division actions at this time.

S Brezinski

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	aerial photo, post fire
Paper Attach	Site sketch & location map
Paper Attach	MDEP photos

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-187-2002**

Spill Report Information

Spill Number:	P-187-2002
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	ANN E HEMENWAY
Primary Product:	#2 Fuel Oil {02} - 20.00 ESTIMATE
Subject/Owner:	- LOUISE SICLANO -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Corrosion - Tank

Spill Date/Time

Spill Date/Time:	03/13/2002

Reporter Type/Detection Method

Type:	Citizen Complaint {3}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	03/13/2002 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LOUISE SICLANO- 720 GRAY RD GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	ANN E HEMENWAY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	LOUISE SICLANO
Street Address:	720 GRAY RD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 20.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 250.00 lbs. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	Guerin

IV. NARRATIVE

A friend reported that Mrs. Siclano had a 55 gallon drum that was serving as a tank feeding a heater in their garage, had corroded and leaked about 20 gallons of oil onto her paved driveway. I responded and cleaned up the oil with sorbent pads which Guerin Assoc. agreed to pick up and dispose of free of charge. No further Response action is needed at this time.

V.ATTACHMENTS

None

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-205-1999**

Spill Report Information

Spill Number:	P-205-1999
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	LITTLE FALLS
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	Diesel {29} - 0.00 UNKNOWN
Subject/Owner:	LAMPRON ENERGY OIL CO - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	DEP Personnel {1}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	03/24/1999 00:00

Subject/Spiller

Contact:	LAMPRON ENERGY OIL CO 435 OSSIPEE TRAIL GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	ERIC HAMLIN EDWARD SCHARF STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MOBIL
Street Address:	20 MOSHER RD - RT 202
MCD Town:	GORHAM
Local Name:	LITTLE FALLS
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842610.51 UTM East 385329.14

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-6401 0

III. CLEANUP

Product Reported:	Diesel {29}
Products Found/Amount Spilled:	Diesel {29} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	Mixed Liquid Media {MM} - 0.00 UNKNOWN
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	Intermediate
Disposal Information:	See narrative.

IV. NARRATIVE

On 3/24/99, Ted Scharf of DEP, BRWM, OEU, notified DEP Response of free product noted in a facility monitoring well (MW) during a DEP facility inspection. The facility was formerly known as Kimbal's Mobil while owned by Ballard Oil. In 1989 the facility had replacement tanks installed. No severe contamination was encountered (see P428-89). The gas station is located in a mixed residential/commercial area and is on city water. My contacts with Lampron Energy was Dennis Dillon (Manager) and Ted Libby.
I visited the site on 3/25/99, 4/2/99, and in 5/99 and confirmed approx. 1/8" of dark diesel or #2 fuel in the well. The monit. well was close to the diesel line, a suspected source. There was no surficial staining on the asphalt paving indicating a surface spill, and no facility spill log indicating another possible source. Working with Eric Hamlin of DEP OEU we gave Lampron's options of testing and/or taking the diesel line out of service (see DEP letters of 4/6/99 and OEU files). The gaso. product lines were due for upgrading by Simard & Sons in May 1999, so we hoped to coordinate all the work. Lampron's and Simard agreed to several days notice to allow DEP to visit.
On 5/9/99 I was contacted by Elwin Scott of Simard's stating the tanks were uncovered and they were in need of an okay to dewater. No notice had been given as requested. Onsite @ 1300 I advised CTI Mike Simard that they may dewater to a rear field but not to the street and nearby brook (prohibited by DEP BRWM and BLWQ). GW was high and soils tight. On 5/21 a sheen on gw was noted entering the excavation, coming from the diesel disp. direction. On 5/25 we dug a shallow test pit between the diesel line and the MW and no oil saturated soils were obvious. The line was tested tight by Tanknology on 5/28/99. No further Resp. Div. actions at this time. See UST Reg. files and attached for further info.

S G Brezinski, Maine DEP, BRWM

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-220-1997**

Spill Report Information

Spill Number:	P-220-1997
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	
Primary Responder:	JOHN DUNLAP
Primary Product:	
Subject/Owner:	WILLIAMS OIL CO. - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	
Cause:	Mechanical Failure - Piping/Hose

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Citizen Complaint {3}
Method:	Odor/Vapor/Mist

Reported Date/Time

Reported Date/Time:	04/28/1997 00:00

Subject/Spiller

Contact:	WILLIAMS OIL CO. 26 MOSHER RD. GORHAM ME
Comment:	

Primary Responder and Other Employees

Contact(s):	JOHN DUNLAP (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Commercial {CM}
Name:	WILLIAMS OIL CO.
Street Address:	26 MOSHER RD.
MCD Town:	GORHAM
Local Name:	
State/Province:	

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside
	III. CLEANUP
Product Reported:	#1 Fuel Oil - Kerosene {01}
Products Found/Amount Spilled:	#1 Fuel Oil - Kerosene {01} - 0.00 UNKNOWN
Material Recovered:	NONE
Recovery/Treatment Method:	NONE
Cleanup DTREE:	
Disposal Information:	
	IV. NARRATIVE
	V.ATTACHMENTS
	None

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-22-2008**

Spill Report Information

Spill Number:	P-22-2008
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	KARA T WALKER
Primary Product:	#2 Fuel Oil {02} - 0.25 ESTIMATE
Subject/Owner:	DOWNEAST ENERGY - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Overfill

Spill Date/Time

Spill Date/Time:	01/08/2008 00:00

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	01/08/2008 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	DOWNEAST ENERGY 34 MANCHESTER DR WINDHAM ME 04062 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	KARA T WALKER (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	LEE MICHAUD
Street Address:	751 GRAY RD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Interior Surface {S}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 0.25 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 15.00 lbs. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	Sorbent pads and speedy dry disposed of by Downeast Energy

IV. NARRATIVE

On January 8, 2008, DEP received notification that less than one (1) quart of #2 fuel oil was discharged as a result of an overfill during a delivery. The spilled occurred onto a cement floor and was remediated with sorbent pads and speedy dry. After speaking with the homeowner, it was determined that the clean-up was conducted to her satisfaction.

No further response action is required at this time.

V.ATTACHMENTS

None

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-257-1991**

Spill Report Information

Spill Number:	P-257-1991
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	Gasoline Unspecified {20} - 20.00 ESTIMATE
Subject/Owner:	LAMPRON'S ENTERPRISES (ENERGY) INC. - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Corrosion - Tank

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	UST Tank Anomaly

Reported Date/Time

Reported Date/Time:	04/24/1991 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON'S ENTERPRISES (ENERGY) INC. 435 OSSIPEE TRAIL (RT. 25) GORHAM ME 04038
Comment:	

Other Contact

Contact:	LES WILSON & SONS WESTBROOK ME USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MINI MART (LIL MART)
Street Address:	688 GRAY RD. (RT. 202 & 237)
MCD Town:	GORHAM

Local Name:	GORHAM
State/Province:	ME
Spill Point	
Spill Point:	UTM North 4842661.08 UTM East 385190.59
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0 Underground Tank(s) Involved-13451 0 Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Gasoline Unspecified {20}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 20.00 ESTIMATE (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 15.00 cu. yds. ESTIMATE
Recovery/Treatment Method:	Excavation {G}
Cleanup DTREE:	
Disposal Information:	LANDFARMED @ Gorham Public Works yard

IV. NARRATIVE

Removal and replacement of retail, motor fuels UST facility. Remediation through source reduction. Abandonment was prior to Sept. 1991 requirement for CMR 691 UST closure assessments. Lampron Enterprises, along with this and other UST facilities, sold in mid-1990 to become Lampron Energy.

See separate narrative and attachments for further detail.

S G Brezinski
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V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-278-2005**

Spill Report Information

Spill Number:	P-278-2005
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	SHERYL J BERNARD
Primary Product:	None {00} - 0.00
Subject/Owner:	LAMPRON ENERGY INC - -

I. EVENT

Spill Info

Type:	Non-Oil, Non-Hazardous Incident
Source:	No Source
Cause:	Other - No Cause

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	UST Tank Anomaly

Reported Date/Time

Reported Date/Time:	03/30/2005 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY INC 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	SHERYL J BERNARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MOBIL
Street Address:	20 MOSHER RD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842610.48 UTM East 385329.08
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-6401 0

III. CLEANUP

Product Reported:	None {00}
Products Found/Amount Spilled:	None {00} - 0.00 (Primary Product)
Material Recovered:	NONE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

On 3/30/05, I received a call from Devin Tapley of Lampron Energy reporting a water alarm sounding at their Little Falls Mobil facility in Gorham. They had someone responding to the site to investigate. I received a call later that the spill bucket was leaking water into the tank during a significant rain event. They made arrangements to have the spill bucket replaced. No further action required.

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-296-2005**

Spill Report Information

Spill Number:	P-296-2005
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	JON L WOODARD
Primary Product:	Waste Oil/Used Motor Oil {81} - 0.00 UNKNOWN
Subject/Owner:	- JOSEPH KITTRELL -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Other Source
Cause:	Accident - Human Error

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Other Involved Party {7}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	04/19/2005 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	JOSEPH KITTRELL- 13 DEPOT ST WINDHAM ME 04062 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	TIMOTHY F WRIGHT JON L WOODARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Commercial {CM}
Name:	WESTBROOK TRANSMISSION
Street Address:	13 DEPOT ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-0 0

III. CLEANUP

Product Reported:	Oil - Other - Specified in Report {88}
Products Found/Amount Spilled:	Sulfuric Acid {72} - 0.00 UNKNOWN Waste Oil/Used Motor Oil {81} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	None {NO} - 0.00 gals. ESTIMATE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

I received a call from Mr. Merrill Laskey reporting that a former tenant of his, Joe Kittrell, Westbrook Transmission, had left a "mess" on his 13 Depot St. property in Windham. Among the products allegedly dumped were tires, petroleum products, batteries, and other auto fluids. He also claimed to have a report from a consultant verifying the contamination. Since it sounded like a possible hazardous waste intentional dumping issue, I requested that Tim Wright of the RCRA Enforcement Unit accompany me on the initial site visit.

We first met with Mr. Laskey at his home where he provided us a letter from his attorney which referred to and included a site assessment and letter from an attorney for Mr. Kittrell. The site assessment identified several issues of concern as already reported to us by Mr. Laskey. It further stated there was subsurface contamination associated with a former UST removed in 1993, which I coincidentally submitted a spill report for (P-696-1993).

We visited 13 Depot St. with Mr. Laskey and noted issues such as abandoned containers of petroleum, tires, batteries, spills of oil, and other bad housekeeping issues common to automotive repair facilities. Most of which we could do nothing about. As for the former UST, Mr. Laskey pointed out the area where it was (500 gallon gasoline) as well as the location of a former tank (10,000 gallon gasoline). I had not required any clean-up in 1993 as the site was, at that time considered baseline and there were no soils above the baseline clean-up standard encountered. The current site assessment (Jacques Whitford, 2004) involved a more extensive sub-surface study and did reveal petroleum contamination down gradient of the 1993 UST removal site. This is also down-gradient of the 10,000 gallon UST, as well as at least one building with a floor drain.

This Site Assessment by Jacques Whitford had actually been contracted by a developer (Renee J. Lewis) who was also developing an adjacent property through the DEP's VRAP program. Upon learning this, it became clear to me that the developer was attempting to get Mr. Laskey to clean up the property through the Groundwater Fund using the 1993 tank removal. She would then buy the property and complete a VRAP clean-up. Upon determining this, I contacted Nick Hodgkins of the VRAP program. He was aware of the property and after discussing it we concurred that the most appropriate action would be for me to require clean-up of the surface spill issues, as with any normal site, then it would be up to any owner or potential owner to proceed with a VRAP if appropriate. It had been determined by Jacques Whitford that the clean-up would be a "baseline-2" as three private wells had been discovered within 1000 ft. up-gradient of the site. These wells had not been known of or considered in my 1993 decision. Nick would consider these in a VRAP decision, however he didn't feel that they should impact the clean-up level decision.

I sent a letter to Mr. Kittrell and copied Mr. Laskey as to the Department's requirements to clean-up the surface discharges and remove the abandoned tires. The remainder of the site would be addressed by the developer through the VRAP process. It is my understanding that initial clean-up was done and the VRAP application will be filed.

The Division of Response Services does not require any further action given the information known at this

time. Any further involvement by Response will be to support VRAP as needed. It is understood that clean-up requirements may be changed and clean-up levels may be reevaluated during the VRAP process.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Letter to Mr. Laskey
Paper Attach	Letters to Mr. Kittrell
Paper Attach	Jaques Whitford site assessment
Paper Attach	Letters from attorneys to Mr. Laskey

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-34-1997**

Spill Report Information

Spill Number:	P-34-1997
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	LITTLE FALLS
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	#2 Fuel Oil {02} - 100.00 ACTUAL
Subject/Owner:	LAMPRON'S ENTERPRISE OIL - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	01/16/1997

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	01/17/1997 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON'S ENTERPRISE OIL ROUTE 25 GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	DENNIS PHILLIPS STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MOBIL (KIMBALLS' MOBIL)
Street Address:	20 MOSHER RD. (RT. 237)
MCD Town:	GORHAM
Local Name:	LITTLE FALLS
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842513.00 UTM East 385266.00

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Inland Surface Water {I} Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-6401 0 Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 100.00 ACTUAL (Primary Product)
Material Recovered:	Mixed Liquid Media {MM} - 90.00 gals. ACTUAL
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	SORBENT PADS TO DEP.

IV. NARRATIVE

On the morning of Friday, 1/17/97, S. Brezinski was notified by Gorham Fire Dept., thru Dennis Phillips of the DEP, of a 100 gallon surface oil spill at this AST/UST facility. Onsite before 0800 hrs, I confirmed the report of the red oil leaking out the AST, going across the parking lot and about 100 ft. S on Rt. 237 till it entered a storm drain and a brook. The 275 gallon AST source lay on several blocks adjacent to a 500 gallon AST behind the station. Next to the AST's was the motor fuel UST facility. The operator, Neil Bickford, stated he noted the spill about 0530.
The Fire Dept. had already contained the spill before I arrived, with sorbent pads and sand from Gorham Pub. Works. We proceeded to pick up the pads, collecting about 12 bags of waste. I later reimbursed the FD for three bales of pads used. Less than a gallon of oil reached the brook, and little soaked into the frozen pavement and soil. Oily sand was left onsite to provide traction for the area and is not expected to cause any problems.
I contacted facility owner Dana Lampron of Lampron Ent. and advised him of expected DEP expenses; the AST Ins. Fund; that he should consider putting a berm under, and rain cover over both AST's; and that he should watch for any potential sheen off remaining oily soil, etc. Since DEP expenses are below the likely deductible for the AST Ins. an application by Lampron is unlikely. The discharge is believed satisfactorily clean at this time. This is not considered a sensitive area.

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-367-2007**

Spill Report Information

Spill Number:	P-367-2007
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	NORTH GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	None {00} - 0.00 ACTUAL
Subject/Owner:	JTL OIL COMPAN - -

I. EVENT

Spill Info

Type:	Non-Oil, Non-Hazardous Incident
Source:	No Source
Cause:	Other - No Cause

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Other

Reported Date/Time

Reported Date/Time:	05/21/2007 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	JTL OIL COMPAN 26 MOSHER ROAD GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Bulk Plant {BP}
Name:	JTL OIL CO [WILLIAMS OIL]
Street Address:	26 MOSHER RD [ROUTE 237]
MCD Town:	GORHAM
Local Name:	NORTH GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842602.31 UTM East 385379.62
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 1 Well At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	None {00} - 0.00 ACTUAL (Primary Product)
Material Recovered:	None {NO} - 0.00 gals. ESTIMATE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	None

IV. NARRATIVE

SUMMARY
On Monday 5/21/07, at the request of On Scene Coordinator Ms. McKeown of United States Environmental Protection Agency (US EPA), I visited this oil company as a favor to US EPA. The visit was check on their obvious compliance with federal rules before EPA hired the company to supply fuel to a remedial project in Maine (see attached e-mails of 5/17/07 - 5/21/07).
After introducing myself to the office personnel, I was given permission to look around. On-site I noted no obvious surface discharges among the two parked tank trucks and the five aboveground storage tanks (ASTs). The area is dense suburban residential and commercial use. North and adjacent to the site is a Lampron's Mobil UST facility that is the subject of other DEP reports and discharges. The property owner, former operator of William's Oil, lives in the back of the property and also inquired about my visit. Given the quantity of oil stored, 3775 gallons in outside ASTs and up to 5000 gallons in trucks, the site may be in need of an Spill Prevention, Control and Countermeasure plan according to Maine and US EPA rules.
At this time, no in-depth DEP file search or Phase-1 or Phase-2 investigation was performed for the property or business.

S G Brezinski
Maine DEP, BRWM
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V.ATTACHMENTS

Attachment Type	Description
Paper Attach	DEP photos
Paper Attach	DEP e-mails
Paper Attach	site sketch

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-375-2002**

Spill Report Information

Spill Number:	P-375-2002
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	SHERYL J BERNARD
Primary Product:	#2 Fuel Oil {02} - 5.00 ESTIMATE
Subject/Owner:	WINDHAM SCHOOL DEPARTMENT - LORING - SUPERINTENDANT

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	05/17/2002 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LORING-SUPERINTENDANT-WINDHAM SCHOOL DEPARTMENT ME USA
Comment:	

Primary Responder and Other Employees

Contact(s):	SHERYL J BERNARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	School - Public {PS}
Name:	REAL SCHOOL
Street Address:	55 HIGH ST
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 5.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 5.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	by C N Brown

IV. NARRATIVE

On 5/17/02, Jon Woodard received a report of a small spill at the Real School in Windham. On 6/3 Jon asked me to follow up on the report. I learned from Linda MacDonald of C. N. Brown that there appeared to be historical spillage around the fill area for an above ground storage tank on the site. Webber Energy had previously filled the account. Unknown if Webber is responsible for the spillage. The C. N. Brown truck driver on site cleaned up the spill with sorbent pads. No further action required.

V.ATTACHMENTS

None

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-381-2004**

Spill Report Information

Spill Number:	P-381-2004
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	Unleaded Gasoline {23} - 0.00 UNKNOWN
Subject/Owner:	LAMPRON ENERGY INC - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Site Assessment

Reported Date/Time

Reported Date/Time:	05/03/2004 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY INC 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LAMPRON LIL MART
Street Address:	688 GRAY RD - RT 237
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842665.31 UTM East 385190.89

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-13451 0 Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Unleaded Gasoline {23} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	Mixed Liquid Media {MM} - 0.00 UNKNOWN Contaminated Soil {CS} - 602.10 tons ACTUAL
Recovery/Treatment Method:	Pumps {B} Excavation {G}
Cleanup DTREE:	
Disposal Information:	Soil to CRS

IV. NARRATIVE

SUMMARY & FACILITY HISTORY
This report covers the abandonment-by-removal and replacement of a retail, motor fuels UST facility. The removed facility was installed in 1991 (see report P-257-91) and a clean-up performed. At the time it was owned and operated by Lampron Enterprises. In the mid-1990's the company and its' facility was purchased by a Vermont company and under the new company namd Lampron Energy.
In report P-1015-02 it describes the notification of one of the gasoline UST's being taken out-of-service due to a leak of product into the tank's interstitial space. See also reports P-403-04 and P-560-03. Onsite is also a 6000-gal diesel tank reported to have been abandoned in-place in 1991.

AREA & DISCHARGE ASSESSMENT
On Mon. 5/3/04, I met CTI Bill Carver and geologist John Engal onsite. FPH (Fred's Plumbing & Heating) was the removal contractor and a subsidiary of the facility owner.
The facility sits in a dense residential & commercial area on the traffic circle of Rt. 237 and Rt. 202. I understand that area is on city water & sewer. Groundwater is high in this location @ about 6' below grade, and the tanks broke their tie-downs and floated during the removal.
Oil contamination was generally below the 100-ppm action level (by PID field headspace). I believe that the majority of contamination is historical, and some from spills at the dispensers (and possibly unreported delivery spills). There is no evidence that the leak to the interstitial space reached the outside environment (many plastic outer walls are not warranteed for prolonged contact with product).

REMEDIAL ACTIONS
No state remedial actions were required at the time. Groundwater was pumped to a Frac-tank in order to allow installation of new UST's. Over 600-tons of soil was excavated in order to install the new tanks and a DEP virgin letter (see attached) was issued for soil disposal a CRS. Much of this soil was likely not contaminated. See the CMR 691 UST assessment for further details. I was not able to be onsite for much of the abandonment, and did not observe the new installation at all.

CONCLUSION
1. No further DEP Resp. Div. actions are required at this time.
2. Lampron Energy may apply to the Maine UST Clean-Up Ins. for potential reimbursement of soil and water management.

S G Brezinski
Maine DEP, BRWM

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	UST Fund Department Order

Paper Attach	LUST Release Report
Paper Attach	site map
Paper Attach	historical report P-257-91
Paper Attach	soil disp. document
Paper Attach	Removal & Reg. forms
Paper Attach	notes

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-403-1989**

Spill Report Information

Spill Number:	P-403-1989
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	Gasoline Unspecified {20} - 10.00 ESTIMATE
Subject/Owner:	LAMPRON'S ENTERPRISES - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Overfill

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	Monitoring Well

Reported Date/Time

Reported Date/Time:	07/12/1989 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON'S ENTERPRISES 638 GRAY ROAD (RT 25) GORHAM ME 04082
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MINI MART
Street Address:	688 GRAY RD. RT 202
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842692.94 UTM East 385179.60
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L} Groundwater {G}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0 Underground Tank(s) Involved-13451 0 Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Gasoline Unspecified {20}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 10.00 ESTIMATE (Primary Product)
Material Recovered:	NONE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	NONE AT THIS TIME

IV. NARRATIVE

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-428-1989**

Spill Report Information

Spill Number:	P-428-1989
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	
Subject/Owner:	HARBOR OIL SUP / SATURLEY - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	
Cause:	Corrosion - Tank

Spill Date/Time

Spill Date/Time:	09/01/1988

Reporter Type/Detection Method

Type:	Citizen Complaint {3}
Method:	UST Tank Anomaly

Reported Date/Time

Reported Date/Time:	07/25/1989 00:00

Subject/Spiller

Contact:	HARBOR OIL SUP / SATURLEY BOX 1238 PORTLAND ME 04104
Comment:	

Primary Responder and Other Employees

Contact(s):	DIANA MCLAUGHLIN STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	KIMBALL'S MOBIL
Street Address:	20 MOSHER RD (RT 237)
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842621.94 UTM East 385301.90
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-6401 0 Underground Tank(s) Involved-6401 0 Underground Tank(s) Involved-6401 0 Underground Tank(s) Involved-6401 0
III. CLEANUP	
Product Reported:	Gasoline Unspecified {20}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 1.00 ESTIMATE
Material Recovered:	Mixed Liquid Media {MM} - 0.00 gals. UNKNOWN
Recovery/Treatment Method:	Vacuum Trucks {A}
Cleanup DTREE:	
Disposal Information:	MOBIL OIL-WATER SEPERATOR FOR GW.
IV. NARRATIVE	
V.ATTACHMENTS	
None	

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-433-2007**

Spill Report Information

Spill Number:	P-433-2007
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	WINDHAM
Primary Responder:	JON L WOODARD
Primary Product:	Gasoline Unspecified {20} - 0.00 UNKNOWN
Subject/Owner:	MAINE CEDAR LOG HOMES REALTY INC - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Site Assessment

Reported Date/Time

Reported Date/Time:	06/15/2007 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	MAINE CEDAR LOG HOMES REALTY INC 33 MAINE STREET WINDHAM ME 04062 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	JON L WOODARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Commercial {CM}
Name:	MAINE CEDAR LOG HOMES
Street Address:	35 MAIN STREET
MCD Town:	WINDHAM
Local Name:	WINDHAM
State/Province:	ME

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-16234 0

III. CLEANUP

Product Reported:	Gasoline Unspecified {20}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 1000.00 cu. yds. ESTIMATE
Recovery/Treatment Method:	Excavation {G}
Cleanup DTREE:	
Disposal Information:	CS to Commercial Recycling

IV. NARRATIVE

Scott Collins of St. Germain & Associates, LLC contacted me regarding a site where they would be excavating gasoline contaminated soil. The site had received a Voluntary Response Action Program (VRAP) certification in 2003 with no further clean up necessary. The excavation at this time was necessary due to site development. Mr. Collins estimated that approximately 1000 cubic yards would be excavated with disposal planned at Commercial Recycling in Scarborough.

I consulted with Nick Hodgkins of the VRAP unit and he agreed that the soil had gasoline contamination and that some analysis of the soil had been done at the time of the VRAP assessment, with nothing hazardous indicated.

Given the unknown age of the Underground Storage Tanks (USTs) I had already requested that Mr. Collins provide lead analysis before a soil debris letter could be provided.

Mr. Collins arranged for the removal of the soil.

V.ATTACHMENTS

Attachment Type	Description
Electronic Form	Spill Debris

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-566-2007**

Spill Report Information

Spill Number:	P-566-2007
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	Gasoline Unspecified {20} - 0.00 UNKNOWN
Subject/Owner:	LAMPRON ENERGY INC - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Corrosion - Other

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Odor/Vapor/Mist

Reported Date/Time

Reported Date/Time:	07/30/2007 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY INC 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder) SCOTT R CYR
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LAMPRONS LITTLE FALLS MINI MART
Street Address:	688 GRAY RD, RT. 202 CIRCLE
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842665.31 UTM East 385190.89
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Gasoline Unspecified {20} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 271.01 tons ACTUAL
Recovery/Treatment Method:	Excavation {G}
Cleanup DTREE:	Intermediate
Disposal Information:	Soil to Commercial Paving & Recycling Company

IV. NARRATIVE

SUMMARY
On 7/31/07, I was notified through Marcia at Commercial Paving & Recycling Company that Shaw Brothers Construction Company (Shaw Bros.) wished to send them oil contaminated soil that they had discovered while excavating for new storm drainage next to the Little Falls Mini Mart in Gorham. DEP's Scott Cyr examined the site that afternoon at my request and issued a Oil Debris letter for soil disposal based on my prior knowledge of the site (see P-381-2004 & P-257-1991). Maine DEP agreed to cover soil disposal costs until a responsible party could be determined and approved for reimbursement. Shaw Bros. and their client covered trucking cost. Only the contaminated soil needing to be removed to install the new drainage was hauled off for recycling.
Based on the contamination's location next to the Lampron Gulf facility, it was clear that the weathered discharge was associated with this underground storage tank (UST) facility. The area is dense residential and commercial and it on municipal water supply. In 1991, I observed a UST replacement with prohibited discharges found while the facility was owned by Lampron Enterprises, under owner Dana Lampron.
On 9/6/07, I contacted Devon of Lampron Energy regarding reimbursement of soil costs and Groundwater Oil Clean-up Fund (Fund) from 1991 or 2004 work. Research found that Lampron Energy had filed a Fund application for P-381-2004.

CONCLUSIONS & RECOMMENDATIONS
1. No further Division of Response Services actions are required by me at this time, though oil contamination is understood to remain onsite and has migrated offsite, such as under the road. No site assessment was required in this instance.
2. Based on present information and assessment, any remaining oil contamination shall be properly managed if disturbed or if conditions change.
3. Based on my present site knowledge and Scott Cyr's observation, this oil contaminated soil appears to be residual from that documented in 1991 and 2004. I recommend coverage under the 2004 Fund claim.

S G Brezinski
Maine DEP, BRWM
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V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Location Map
Paper Attach	Signed Spill Debris
Paper Attach	waste processing Info.
Electronic Form	Expense Tracking
Electronic Form	Cleanup DTREE

New Search

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-696-1993**

Spill Report Information

Spill Number:	P-696-1993
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	JON WOODARD
Primary Product:	
Subject/Owner:	ENERGY DEPOT - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	
Cause:	Overfill

Spill Date/Time

Spill Date/Time:	10/28/1993 00:00

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Tank and/or Piping Removal

Reported Date/Time

Reported Date/Time:	10/28/1993 00:00

Subject/Spiller

Contact:	ENERGY DEPOT 13 DEPOT STREET WINDHAM ME 04062
Comment:	

Primary Responder and Other Employees

Contact(s):	JON WOODARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Commercial {CM}
Name:	ENERGY DEPOT
Street Address:	13 DEPOT STREET
MCD Town:	WINDHAM
Local Name:	
State/Province:	

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}

Tanks Involved

Tanks Involved:	Underground Tank(s) Involved-0 0

III. CLEANUP

Product Reported:	Leaded Gasoline {22}
Products Found/Amount Spilled:	Leaded Gasoline {22} - 0.00 ACTUAL
Material Recovered:	NONE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-560-1993**

Spill Report Information

Spill Number:	P-560-1993
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN BREZINSKI
Primary Product:	Unleaded Gasoline {23} - 4.09 ACTUAL
Subject/Owner:	LAMPRON OIL (ENERGY INC.) - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Accident - Human Error

Spill Date/Time

Spill Date/Time:	09/08/1993 00:00

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	09/08/1993 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON OIL (ENERGY INC.) 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MINI MART
Street Address:	688 GRAY RD. RT 202
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842665.31 UTM East 385190.89
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Unleaded Gasoline {23} - 4.09 ACTUAL (Primary Product)
Material Recovered:	Mixed Liquid Media {MM} - 4.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	NO TEXT. SEE ATTACHED

IV. NARRATIVE

V.ATTACHMENTS

None

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-584-2003**

Spill Report Information

Spill Number:	P-584-2003
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	SCOTT R CYR
Primary Product:	Unleaded Gasoline {23} - 0.00 UNKNOWN
Subject/Owner:	LAMPRON ENERGY INC - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Underground Storage Tank
Cause:	Other - Unknown

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	07/31/2003 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY INC 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Primary Responder and Other Employees

Contact(s):	SCOTT R CYR (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LAMPRON ENERGY
Street Address:	20 MOSHER RD
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842610.48 UTM East 385329.13
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-6401 7

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Unleaded Gasoline {23} - 0.00 UNKNOWN (Primary Product)
Material Recovered:	None {NO} - 0.00 gals. ESTIMATE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	none

IV. NARRATIVE

Upon observing a slight sheen on the ground water surface, Mr Redmond of A & F notified DEP of the situation. Lampron was also made aware, the spill box was being changed when the observation was made. All other system functions were operating properly, the slight sheen was attributed to historical events at the service station.

No clean up was attempted as the sheen deemed minor and otherwise unrecoverable. No DEP visit conducted based on the information provided, and the leak detection system working properly none expected for this notification.

Respectfully submitted Scott R Cyr

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-697-2001**

Spill Report Information

Spill Number:	P-697-2001
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	None {00} - 0.00 ACTUAL
Subject/Owner:	LAMPRON ENERGY CO. - -

I. EVENT

Spill Info

Type:	Non-Oil, Non-Hazardous Incident
Source:	No Source
Cause:	Other - No Cause

Spill Date/Time

Spill Date/Time:	08/29/2001 00:00

Reporter Type/Detection Method

Type:	DEP Personnel {1}
Method:	UST Tank Anomaly

Reported Date/Time

Reported Date/Time:	08/29/2001 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY CO. 435 OSSIPEE TRAIL RT. 25 GORHAM ME 04038 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LITTLE FALLS MINI MART
Street Address:	688 GRAY RD., RT. 202
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842665.31 UTM East 385190.89
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-13451 0

III. CLEANUP

Product Reported:	None {00}
Products Found/Amount Spilled:	None {00} - 0.00 ACTUAL (Primary Product)
Material Recovered:	NONE
Recovery/Treatment Method:	None {K}
Cleanup DTREE:	
Disposal Information:	n/a

IV. NARRATIVE

On 8/29/01 I briefly visited this retail, motor fuels UST facility to check on the scheduled facility upgrade by CTI Bill Carver, scheduled the previous July. The facility upgrade was partially complete at the time. The manager stated that work had begun several weeks earlier and did not know when it would resume. I noted no discharges during my visit and I am not aware of any being reported earlier. The area is on city water. Remedial work was done during the facility replacement by Les Wilson & Sons. See DEP UST Reg. file #13451, and reports P-560-93 and P-403-89 for further site info.

S G Brezinski
Maine DEP, BRWM, Div. of Response Services

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	site sketch.

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-716-1997**

Spill Report Information

Spill Number:	P-716-1997
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	STEPHEN FLANNERY
Primary Product:	
Subject/Owner:	SOUTH WINDHAM COMMUNITY CHURCH - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	
Cause:	Mechanical Failure - Valve

Spill Date/Time

Spill Date/Time:	11/25/1997 00:00

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	11/25/1997 00:00

Subject/Spiller

Contact:	SOUTH WINDHAM COMMUNITY CHURCH 15 MAIN STREET WINDHAM ME
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN FLANNERY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Other - Religious {OTR}
Name:	SOUTH WINDHAM COMMUNITY CHURCH
Street Address:	15 MAIN STREET
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#1 Fuel Oil - Kerosene {01}
Products Found/Amount Spilled:	#1 Fuel Oil - Kerosene {01} - 30.00 ESTIMATE
Material Recovered:	Mixed Liquid Media {MM} - 30.00 gals. ESTIMATE
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	WASTE TO MID MAINE WASTE ACTION CORP.

IV. NARRATIVE

Due to a damaged valve on an AST, kerosene was discharged onto the basement floor of the church. The fuel was contained with speedy-dry, and later disposed of. The valve was replaced.

No further action required.

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-718-1994**

Spill Report Information

Spill Number:	P-718-1994
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	
Primary Responder:	LINDA DORAN
Primary Product:	
Subject/Owner:	- COUNTY CUMBERLAND -

I. EVENT

Spill Info

Type:	Non-Oil, Non-Hazardous Incident
Source:	
Cause:	Other - No Cause

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Tank and/or Piping Removal

Reported Date/Time

Reported Date/Time:	11/16/1994 00:00

Subject/Spiller

Contact:	COUNTY CUMBERLAND- 142 FEDERAL STREET PORTLAND ME 04101
Comment:	

Primary Responder and Other Employees

Contact(s):	LINDA DORAN (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Government, Municipal or Religious Facility {NA}
Name:	EMERGENCY MANAGEMENT BUNKER
Street Address:	22 HIGH STREET
MCD Town:	WINDHAM
Local Name:	
State/Province:	

Spill Point

Spill Point:	UTM North 4842943.38 UTM East 385689.01
Wells and Media Affected	
Wells Affected:	2 Wells Impacted/ 1 Well At Risk
Media Affected:	None {N}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-24 2 Underground Tank(s) Involved-24 1

III. CLEANUP

Product Reported:	Leaded Gasoline {22}
Products Found/Amount Spilled:	None {00} - 0.00 ACTUAL
Material Recovered:	NONE
Recovery/Treatment Method:	Other {J}
Cleanup DTREE:	
Disposal Information:	

IV. NARRATIVE

V.ATTACHMENTS

None

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-728-1999**

Spill Report Information

Spill Number:	P-728-1999
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	SHERYL BERNARD
Primary Product:	#2 Fuel Oil {02} - 50.00 ESTIMATE
Subject/Owner:	- MICHAEL SHAUGHNESSY -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Corrosion - Piping

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Subject/Spiller {2}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	10/08/1999 00:00

Subject/Spiller

Contact:	MICHAEL SHAUGHNESSY- 43 PARK RD. WINDHAM ME 04062
Comment:	

Primary Responder and Other Employees

Contact(s):	SHERYL BERNARD (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Single Family {SF}
Name:	SHAUGHNESSY, MICHAEL
Street Address:	32 MAIN ST.
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	ME

Spill Point

Spill Point:

Wells and Media Affected

Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Land {L}

Tanks Involved

Tanks Involved:	Above Ground Tank(s) Involved-Tank Outside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 50.00 ESTIMATE (Primary Product)
Material Recovered:	Contaminated Soil {CS} - 1.32 tons ACTUAL
Recovery/Treatment Method:	Excavation {G}
Cleanup DTREE:	
Disposal Information:	Contaminated soil to Commercial Recycling.

IV. NARRATIVE

On 10/8/99 I received a call from Michael Shaughnessy of Windham reporting an oil spill at a property he owned in South Windham. The heating oil spill occurred due to a leaking copper fuel line. The spill occurred in the dirt floor basement of the building.

I visited the site on 10/12 and observed oil staining on the dirt floor. I made arrangements to have Fleet Environmental Services excavate the spill with a vactor. Myself and Fleet returned to the site on 10/14 and cleaned up the spill. The majority of the spillage was recovered, but a small amount of contaminated soil was left behind because it was too close to support structures in the building to remove safely. No further action required.

_____
SHERYL J. M. BERNARD
OIL & HAZARDOUS MATERIALS SPECIALIST II
DECEMBER 13, 1999

V.ATTACHMENTS

None

New Search

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Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-779-2004**

Spill Report Information

Spill Number:	P-779-2004
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	ANN E HEMENWAY
Primary Product:	#2 Fuel Oil {02} - 200.00 ESTIMATE
Subject/Owner:	- PIETER C VAN EEKELEN -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Storage Unit - Aboveground Storage Tank
Cause:	Mechanical Failure - Loose Fitting

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Other Involved Party {7}
Method:	Odor/Vapor/Mist

Reported Date/Time

Reported Date/Time:	09/11/2004 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	PIETER C. VAN EEKELEN- C/O MAJIM ANIMASHAUN PO BOX 2397 SOUTH PORTLAND ME 04106 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	ANN E HEMENWAY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Residential - Multi Family {MF}
Name:	PIETER VAN EEKELEN
Street Address:	14 PLEASANT ST
MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME

Spill Point

Spill Point:	UTM North 4842845.87 UTM East 385096.31
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Groundwater {G} Land {L}
Tanks Involved	
Tanks Involved:	Above Ground Tank(s) Involved-Tank Inside

III. CLEANUP

Product Reported:	#2 Fuel Oil {02}
Products Found/Amount Spilled:	#2 Fuel Oil {02} - 200.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.00 UNKNOWN Mixed Liquid Media {MM} - 0.00 UNKNOWN Contaminated Soil {CS} - 6.62 tons ACTUAL
Recovery/Treatment Method:	Pumps {B} Vacuum Trucks {A} Sorbents {C} Excavation {G}
Cleanup DTREE:	
Disposal Information:	All waste brought to Commercial Paving

IV. NARRATIVE

Somehow the oil line in this basement became unscrewed from the furnace. The oil tank was filled and all the product drained out onto the dirt floor. The heavy contamination was vactored out of the basement but there was still oil on the groundwater. We pumped the contaminated water out several times. Then I got Peter Eremita of Technical Services involved for venting and groundwater recovery. No further Response action is needed at this time.

V.ATTACHMENTS

Attachment Type	Description
Electronic Form	Referral to PETER M EREMITA
Paper Attach	Waste Processing Letter
Paper Attach	Soil Disposal Letter
Electronic Form	Expense Tracking

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-868-2005**

Spill Report Information

Spill Number:	P-868-2005
Report Status:	Final Report
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
Primary Responder:	ANN E HEMENWAY
Primary Product:	PCB Oil {71} - 35.00 ESTIMATE
Subject/Owner:	VILLAGE AT LITTLE FALLS LLC - -

I. EVENT

Spill Info

Type:	Hazardous Material Incident
Source:	Utility - Electrical Transformer
Cause:	Discharge - Vandalism

Spill Date/Time

Spill Date/Time:	Date and Time Unknown

Reporter Type/Detection Method

Type:	Contractor/Consultant {6}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	07/05/2005 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	VILLAGE AT LITTLE FALLS LLC 2 MARKET ST - 6TH FLOOR PORTLAND ME 04101 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	ANN E HEMENWAY (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Business - Industrial {ID}
Name:	FORMER KEDDY MILL
Street Address:	7 DEPOT ST
MCD Town:	WINDHAM
Local Name:	SOUTH WINDHAM
State/Province:	ME

Spill Point

Spill Point:	
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Interior Surface {S}
Tanks Involved	
Tanks Involved:	Undefined

III. CLEANUP

Product Reported:	PCB Oil {71}
Products Found/Amount Spilled:	PCB Oil {71} - 35.00 ESTIMATE (Primary Product)
Material Recovered:	Other Material {OM} - 0.00 UNKNOWN
Recovery/Treatment Method:	Sorbents {C}
Cleanup DTREE:	
Disposal Information:	Environ

IV. NARRATIVE

I was contacted by Todd Coffin reporting that there had been a spill of Polychlorinated Biphenyls (PCB) containing oil at a site he was working on. Apparently vandals broke into the former Keddy Mill and knocked over some electrical components that contained PCB oil, spilling 30 - 40 gallons of it onto the concrete floor in the mill. This mill is currently in the process of redevelopment and is going through the Voluntary Response Action Program (VRAP) process. The original VRAP application identified this PCB oil along with other areas of PCB oil impact. Mr Coffin contacted EPA and they defined the cleanup process required. Environ was hired to do the cleanup to EPA's requirements. No further Response action is needed at this time.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	7/14/05 email from Todd Coffin
Paper Attach	7/5/05 email from Todd Coffin

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Remediation & Waste Management

Hazardous & Oil Spill System

ONLINE REPORT SERVICE

SEARCH: Results: Full Report

Selected Report: **P-916-2007**

Spill Report Information

Spill Number:	P-916-2007
Report Status:	Final Report
MCD Town:	GORHAM
Local Name:	GORHAM
Primary Responder:	STEPHEN G BREZINSKI
Primary Product:	Unleaded Gasoline {23} - 15.00 ESTIMATE
Subject/Owner:	LAMPRON ENERGY INC - -

I. EVENT

Spill Info

Type:	Oil Incident
Source:	Land Transportation - Tank Truck
Cause:	Overfill

Spill Date/Time

Spill Date/Time:	12/27/2007 00:00

Reporter Type/Detection Method

Type:	Public Official {4}
Method:	Visual Product

Reported Date/Time

Reported Date/Time:	12/28/2007 00:00

Subject/Spiller (Potential Responsible Party)

Contact:	LAMPRON ENERGY INC 435 OSSIPPEE TR GORHAM ME 04038
Comment:	

Other Contact (Potential Responsible Party)

Contact:	NOURIA ENERGY PO BOX 1360 STANDISH ME 04084 USA
Comment:	

Primary Responder and Other Employees

Contact(s):	STEPHEN G BREZINSKI (Primary Responder)
Comment:	No Further Response Action Expected

II. SITE

Location

Location Type:	Terminal - Service Station {SS}
Name:	LAMPRONS PETRO KING (KIMBALLS MOBIL)
Street Address:	20 MOSHER RD

MCD Town:	GORHAM
Local Name:	GORHAM
State/Province:	ME
Spill Point	
Spill Point:	UTM North 4842610.35 UTM East 385328.14
Wells and Media Affected	
Wells Affected:	0 Wells Impacted/ 0 Wells At Risk
Media Affected:	Inland Surface Water {I} Land {L}
Tanks Involved	
Tanks Involved:	Underground Tank(s) Involved-6901 0

III. CLEANUP

Product Reported:	Unleaded Gasoline {23}
Products Found/Amount Spilled:	Unleaded Gasoline {23} - 15.00 ESTIMATE (Primary Product)
Material Recovered:	Mixed Liquid Media {MM} - 55.00 gals. ESTIMATE
Recovery/Treatment Method:	Remove {R} Excavation {G}
Cleanup DTREE:	
Disposal Information:	Disposal by Environmental Projects Inc.

IV. NARRATIVE

SUMMARY
Friday 12/28/07: The Maine Department of Environmental Protection (MDEP) was notified by the Gorham Fire Dept., through the Maine State Police, of a gasoline discharge that had occurred at this gas station the previous night.
Onsite by 0830, hours I met Rob Walker, the facility operator. He explained that during the night the station received a delivery by Lampron Energy during a snow storm. It appeared that there was an overfill or hose leak from the tank trailer to the ground around the regular-unleaded grade underground-oil-storage-tank (UST). Lampron's delivery driver did not report the discharge to anyone, did not apply sorbents, or try to control to the discharge. The gasoline discharge was not noticed until the area was plowed in the morning, then Walker notified the fire department.
Onsite, I noted the strong odor of gasoline in the area. The snow and ice around the USTs was stained yellow with gasoline (see Photos 1 & 2). There were no flammable vapors. Some of the gasoline-contaminated snow had been pushed into the snow bank by the plow. I spoke with Devon Tapley of Lampron Energy who arranged for a clean-up crew to recover the discharged gasoline. Lampron Energy workers scaped up drums of contaminated snow and ice. Environmental Projects Inc. (EPI) took the snow for melting and disposal as one drum of liquid (see attached manifest).
The site is a retail, motor fuels UST facility and auto repair garage owned and operated by Lampron Energy. It has also been known as Little Falls Mobil and as Kimball's Mobil. The area is served by municipal water service. Mr. Tapley assured me that Lampron Energy would reprimand the driver and I opted not to refer the discharge for MDEP enforcement action at the time.

V.ATTACHMENTS

Attachment Type	Description
Paper Attach	Hazardous Waste Manifest 3973505 JJK
Paper Attach	MDEP Field Notes & Site Sketch
Paper Attach	Response Spill DTree Map 1:1826
Paper Attach	MDEP photos

New Search

Questions about this Service? Contact the Bureau at: (207) 287-2651 or Email: deprwm@maine.gov

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MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL & HAZARDOUS MATERIALS REPORT FORM

Spill Number P - 718 - 94

SUBJECT / OWNER OR OPERATOR

Name (Last, First, MI): CUMBERLAND COUNTY

Address: 142 FEDERAL STREET Town: PORTLAND

State: ME Zip: 04101 Telephone: (207) 871-8391

Comments: CONTACT: RUSSELL BRIGHAM

LOCATION / FACILITY INFORMATION

Spill Location: EMERGENCY MANAGEMENT BUNKER

Address: 22 HIGH STREET Location ID: 20074

Town: WINDHAM Zip: 04062

Latitude N: 43 / 43 / 43.70 Longitude W: 70 / 24 / 59.30

SPILL / EVENT INFORMATION

Spill Type: E (Table A) Amount Spilled: 0.00 G (Gals, Yds3, Lbs or Bbls)

Product Reported Spilled: 21 (Table B) Product Actually Found: 00 (Table B)

Date Of Spill: Time Of Spill: (Military)

Date Reported: Nov. 16, 1994 Time Reported: 0800 (Military)

Cause Of Spill: 00 (Table C) Detection Method: 6 J (Table D)

Incident Code: H - NA - N - U (Table E)

DEP response time involved: 6 Wells At Risk: 1 Wells Impacted: 2

Investigators' names : DORAN, LINDA

PERSON REPORTING EVENT

Name (Last, First, MI): BRIGHAM, RUSSELL

Address: CUMBERLAND COUNTY Town: PORTLAND

State: ME Zip Code: 04101 Telephone: (207) 871-8391

CLEAN-UP INFORMATION

Spill Number P - 718 - 94

Total Product Recovered : (Gals, Yds3, Lbs, Tons or Bbls)

Method of Recovery : J

Non Recyclable : (Gals, Tons or Bbls)

Solids Combustible : (Yds3 or Tons)

Solids Non Combustible : Yds3

Recyclable : (Gals, Yds3, Lbs, Tons or Bbls)

Number Filters Installed : 0

Number Aerators Installed : 0

Disposal Information :

OTHER ACTIONS

Expenditure (s) -	From Surface Water Fund	N	(Y or N)
	From Ground Water Fund	N	(Y or N)
	From Haz Waste Fund	N	(Y or N)
Third Party Damage Claim Expected		N	(Y or N)
Enforcement Referral		N	(Y or N)
Insurance Fund Claim		N	(Y or N)
Tech Services Referral		N	(Y or N)

UNDERGROUND TANKS INFORMATION

UNO/UST Site Number	Tank Number	Size Of Tank	Tank Material	Tank Age	Piping Material	Tank Status
24 _	1	2,000	A	4	M	AB
24 _	2	1,000	A	3	M	AC

Please use separate sheets of paper, as needed, for your detailed Recommendations and Spill Narrative. Remember to include/attach directions to find spill site (with a map if possible), all observations made, clean up actions performed and photos (if taken).

Include known chemical names when report is about Hazardous Materials.

Please, document your information carefully. It may be needed for future reference or legal action.

P718/94LD
Emergency Management (Windham)

On October 18, 1994, I was contacted by Russell Brigham of Cumberland County. He was requesting a waiver for a tank removal, at the Emergency Management Bunker in Windham. I granted the waiver under the condition that the removal be scheduled at a time that I would be able to attend.

The tanks were removed on Nov. 16, 1994 by Les Wilson and Sons. Will Humphries (J.B. Plunkett) was on site as consultant. The tanks were removed there was no visible signs of contamination and no holes in the tanks.

No further action by the Division of Response Services is deemed necessary at this time.

Linda M. Doran

Linda M. Doran - OHMS I
Division of Response Services
Bureau of Hazardous Material and Solid Waste Control

10/18
10:08

MSC

MAINE • SAFETY • COUNCIL

Russ Brigham
Cumberland County 871-8293
fax 8292

1,000 gallon # 2 fuel

Would like to Remove additional tank in same excavation

Change tank location From 85 high St to 22 High St. in Windham

needs to get tank registration changed

Cumberland County Facilities Department

Phone: 871-8391

Date: 9/22/94

Russell J. Brigham
Facilities Manager
Cumberland County
142 Federal Street
Portland, Me. 04101

Maine DEP
William Butler
Division of Licensing & Enforcement
State House Station #17
Augusta, Me. 04333

871-8292

Dear Bill,

As a result of our telephone conversation today, I called the Portland Response telephone number you gave me to obtain a waiver of the 30 day notice. I spoke with a person named Linda Doran. She explained to me that I should send this Notice of Intent to you with the request that it be sent to her immediately. When she receives it she will be able to issue the waiver to allow me to proceed.

I wish to thank you and Linda for your help in supplying me with the information I needed to react to this situation. You both have been very cooperative and helpful. Please Feel free to call me if you have any questions.

Sincerely,

Russell J. Brigham

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION
SEP 26 2 10 PM '94
ADMINISTRATIVE
SERVICES

Maine Department of Environmental Protection
Bureau of Hazardous Materials & Solid Waste Control
State House Station #17
Augusta, Maine 04333-0017
Attention: Tank Removal Notice
Telephone: (207) 287-2651

7/93

NOTICE OF INTENT TO ABANDON (REMOVE) AN UNDERGROUND OIL STORAGE FACILITY

THIS FORM MUST BE FILED WITH THE D.E.P. AND YOUR LOCAL FIRE DEPARTMENT AT LEAST 30 DAYS PRIOR TO THE SCHEDULED REMOVAL

PLEASE TYPE OR PRINT IN INK: 8293

Name of Facility Owner: CUMBERLAND COUNTY
Mailing Address: 142 FEDERAL ST. Telephone #: 871-8391
City: PORTLAND State: ME Zip Code: 04101
Contact Person (name, address & telephone #): Russell J. BRIGHAM
142 FEDERAL ST., PTLD, 871-8391
Name of Facility: EMERGENCY MANAGEMENT Registration #: 24
Facility Location (town & street): WINDHAM, ME ~~85~~ 28 HIGH ST.

1. Identify the tanks at this location which are going to be removed:

Tank #	Tank Age	Tank Size (gallons)	Type of Product Stored
1	16yrs old	2000	GASOLINE
2	12 yrs. old	1000	#2 FO.
3			
4			

2. Directions to this facility (be specific): FROM WESTBROOK - TAKE RIVER RD. to WINDHAM CORRECTIONAL FACILITY, TAKE a Right ONTO HIGH Street (across FROM CORRECTIONAL FACILITY). TAKE FIRST LEFT DOWN DRIVEWAY OF CUMBERLAND COUNTY EMA.

3. Is or was the tank(s) used to store Class I liquids (e.g. gasoline, jet fuel)? Yes ✓ No___
IF YES, REMOVAL OF THE TANK(S) MUST BE DONE UNDER THE DIRECTION OF A CERTIFIED TANK INSTALLER. Ronald Wilson 299 Ronald Wilson
Tank Installer's Name: [illegible] **Certification Number:** 321 017 **Signature:** [illegible]

4. Environmental site assessments are required for all tanks except those used for storing heating oil, not for resale, or for farm or residential motor fuel tanks under 1,100 gallons where the product is used on site. **Site Assessor's Name and Address** (if applicable):
J.B. Plunkitt

5. Name and telephone number of contractor who will do the tank removal:
LES WILSON & SONS 854-1583

6. Expected date of removal (month/day/year):_____

I hereby provide Notice that I intend to properly abandon the underground oil storage facility as described above.

Date: 31-August-94 Signature: Russell J. Brigham
Printed Name and Title: RUSSELL J. BRIGHAM - County FACILITIES MANAGER

Mail original and yellow copy to DEP; pink copy to fire department; retain gold copy.
RETURN POSTCARD AFTER TANK(S) HAS BEEN REMOVED

WAIVER FROM THE REQUIREMENT THAT A NOTICE OF ABANDONMENT BY REMOVAL OF AN UNDERGROUND OIL TANK BE FILED THIRTY DAYS PRIOR TO REMOVAL

Due to Exceptional circumstances the Department of Environmental Protection grants a waiver to the thirty day filing period for abandonment by removal of the listed underground tanks, provided that the owner or operator meets the following conditions:

1. A written notice of removal is filed with the Department and the local fire department within one day of receiving this waiver.

2. The Department is kept advised of removal plans and schedule so that a department representative can observe the removal of the tank(s) and the excavation from which the tank(s) was/were removed.

Tank(s) owned by:

Name Cumberland County Phone # 871-8391

Mailing Address 142 Federal St. Town Portland

Located at:

Name Emergency Mgmt Agency Phone # 892-6785

Address 85 High Street Town Windom

Reason for Waiver: Misunderstanding of Regulations

List tank(s) below:

Registration #	Size	Location on Site (Describe or Diagram)
24-1	2000	
24-2	1000	

Planned Date of Removal: ~~[illegible]~~ NOV. 1, 1994

This waiver is granted on (date) 10/20/94 **by**

Linda Doran, **a copy of which is presented to**

Mr. Brigham.

(Name of individual receiving the copy)

White - Enforcement Copy Canary - Investigator's Copy Pink - Tank Owner's Copy

90WAVEF

Steve,

Mr. Brigham
Cumberland County Inspector, requested a waiver for a tank pull in Windham. I said I'd give him one when I got a copy of the removal notice, but I will be (NOT HERE) out of town. The removal notice should be coming to my attn. → Could you check things over for accuracy and send out (and finish filling in) waiver for me?

warm - 50°-60°
sunny

11/16/94 EMA Bunker - Windham

Tank pull — Contractor - Wilson

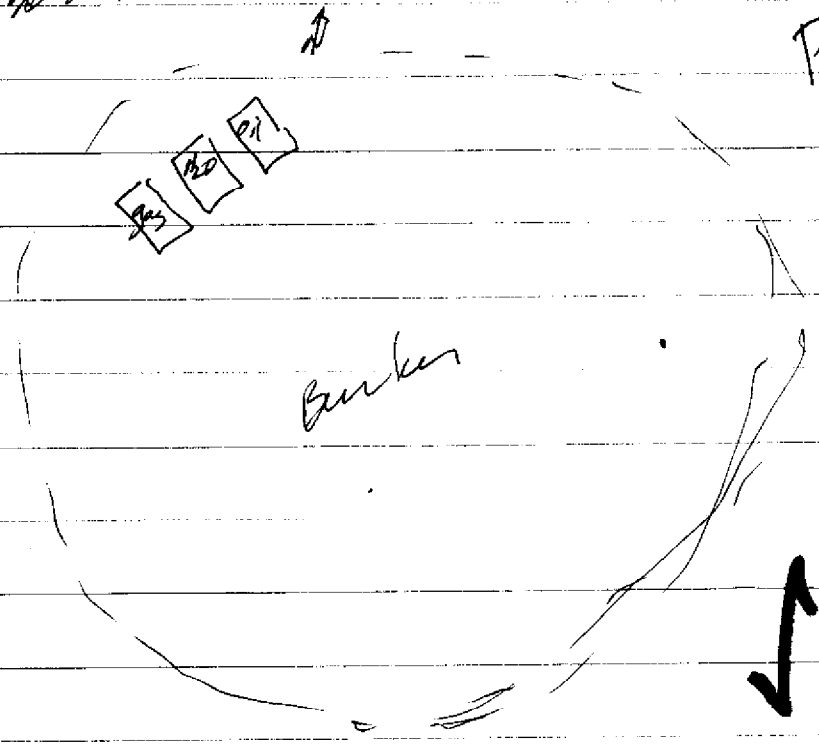
1000 gal Oil — Consultant - plunkett

2000 gal gas

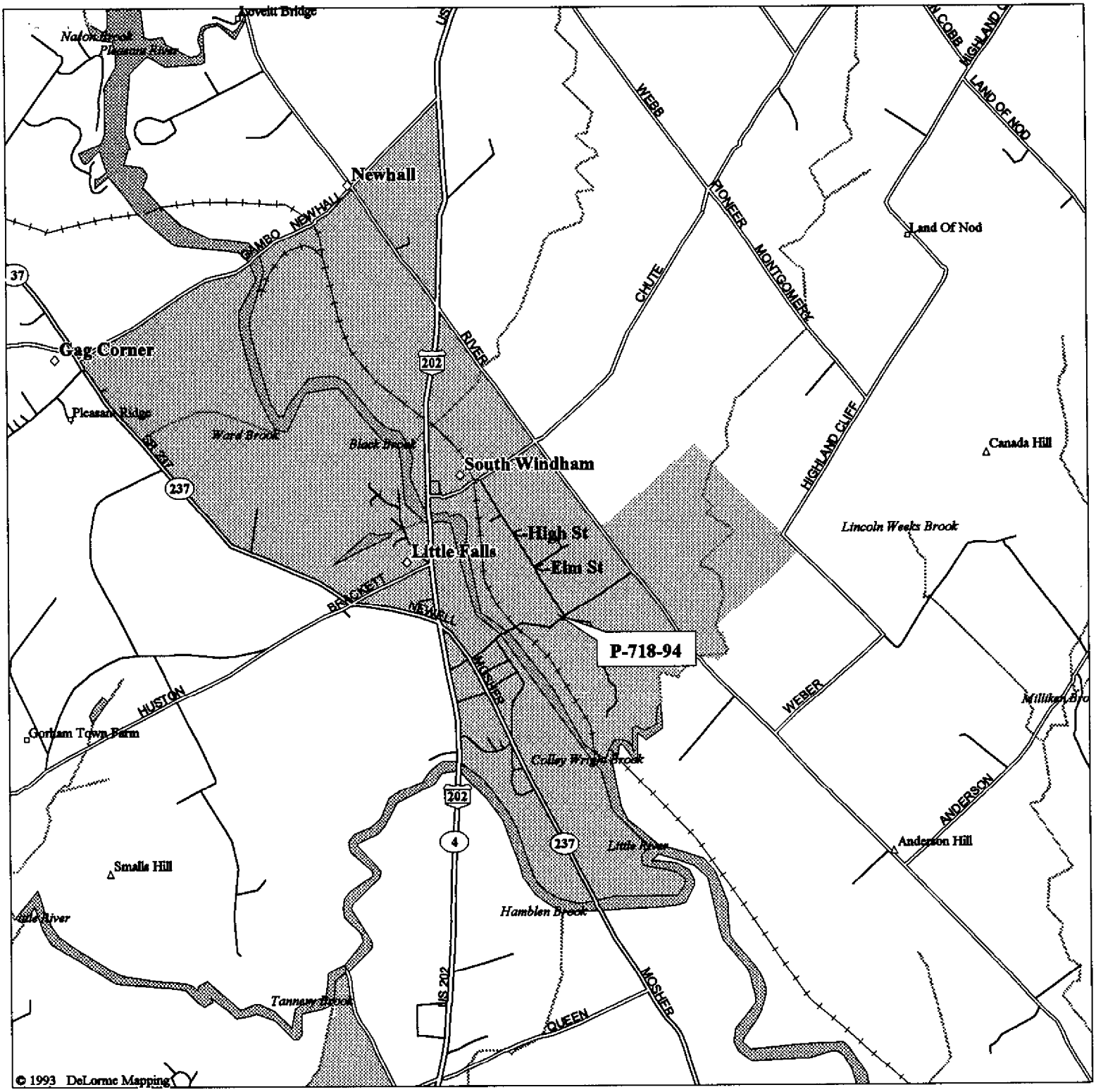
tanks on side of Bunker, covered with 5-8' of soil

~~Excavation~~

#718-94
P-



✓ on Insurance mail Card



LEGEND

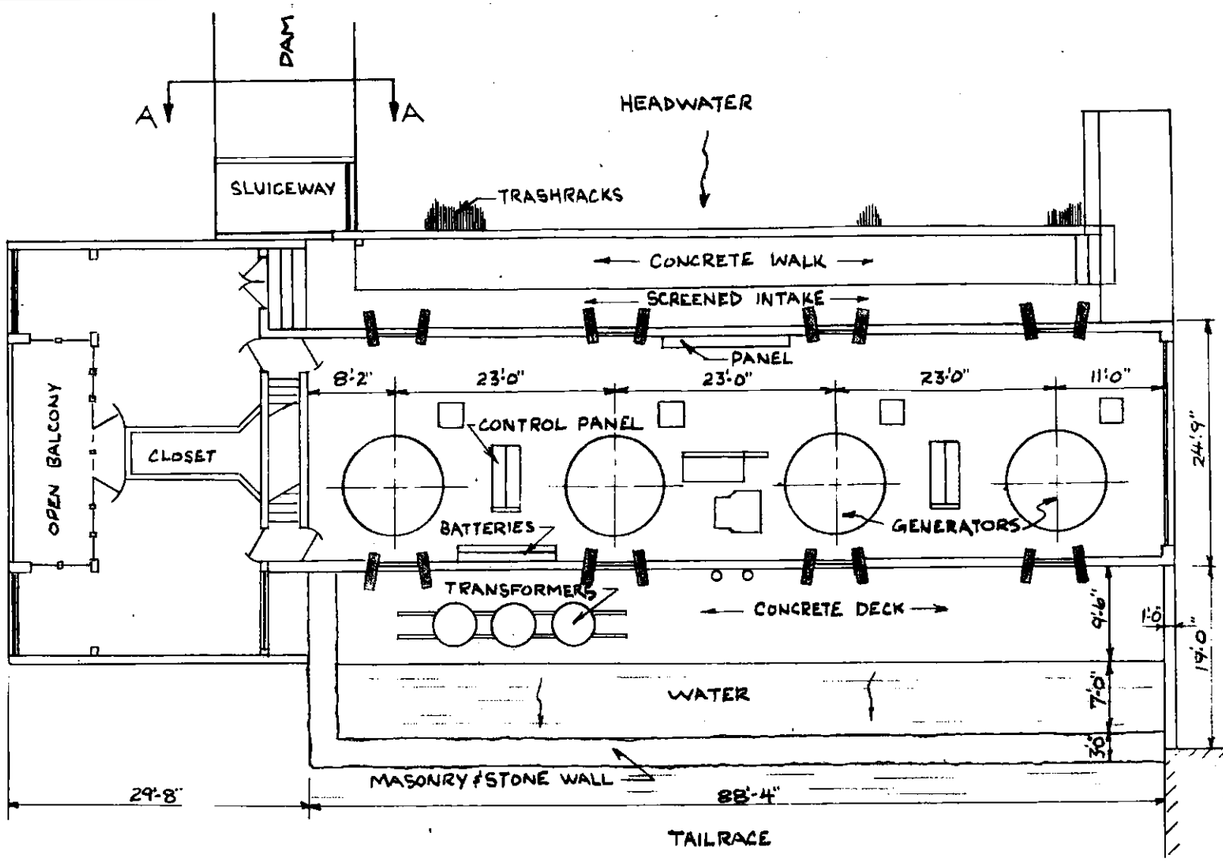
- Population Center
- State Route
- Geo Feature
- Town, Small City
- Hill
- US Highway
- Street, Road
- Major Street/Road
- State Route
- US Highway
- Railroad
- River
- Open Water

Scale 1:31,250 (at center)

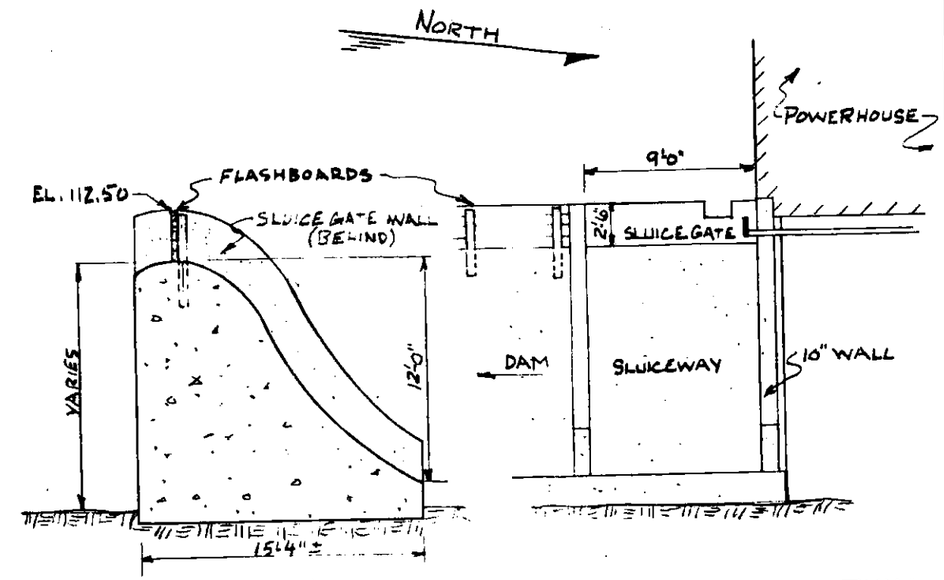
2000 Feet

1000 Meters

Mag 14.00
Fri Nov 18 12:26:28 1994



POWERHOUSE FLOOR PLAN
1/16"=1'-0"

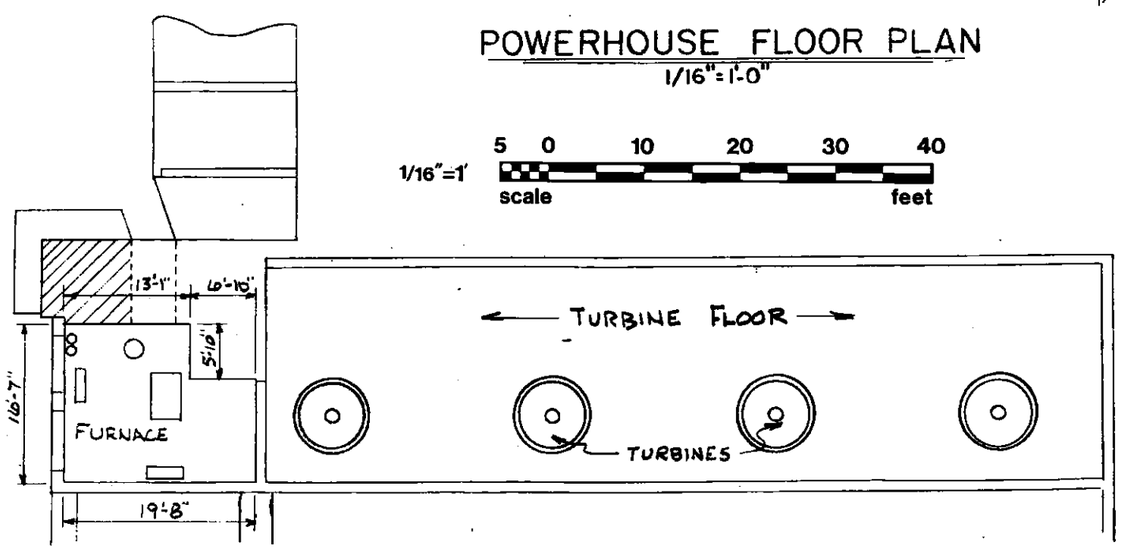


SECTION A-A
1/8"=1'-0"

SLUICEWAY ELEVATION
1/8"=1'-0"

1/8"=1' scale 5 0 5 10 15 20 feet

1/16"=1' scale 5 0 10 20 30 40 feet



BASEMENT FLOOR PLAN
1/16"=1'-0"

DRAWN BY KLEINSCHMIDT & DUTTING - CONSULTING ENGINEERS - PITTSFIELD, MAINE

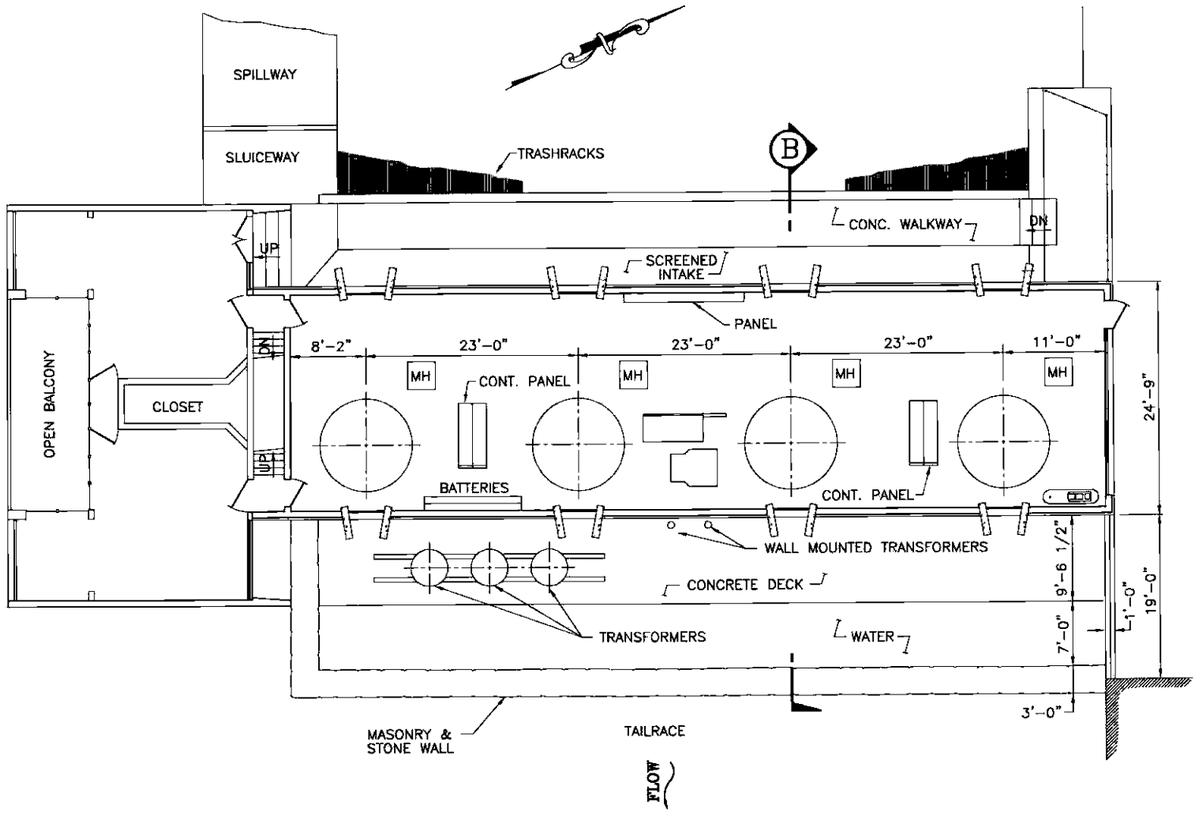
THIS DRAWING IS A PART OF THE APPLICATION FOR A LICENSE MADE BY THE UNDERSIGNED THIS ____ DAY OF Aug 15 19 74 BY W. H. Warren S.D. WARREN CO.

EXHIBIT L SHEET 1 OF 2

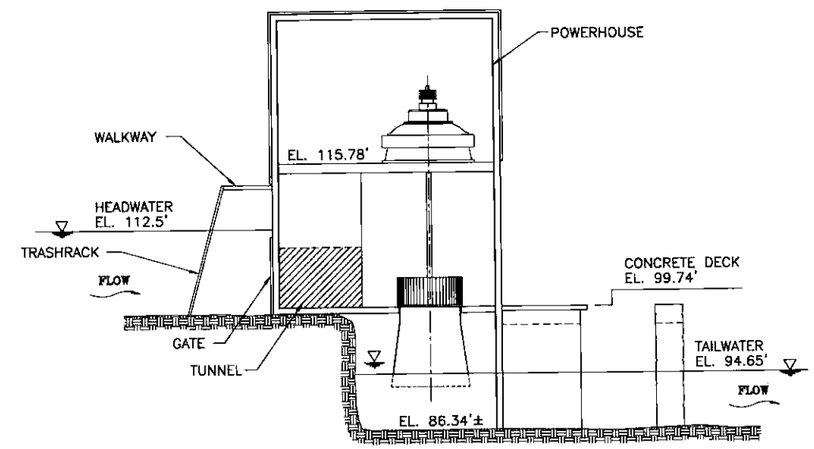
LITTLE FALLS PROJECT
POWERHOUSE FLOOR PLANS
S.D. WARREN DIV. OF SCOTT PAPER CO.

CUMBERLAND MILLS MAINE

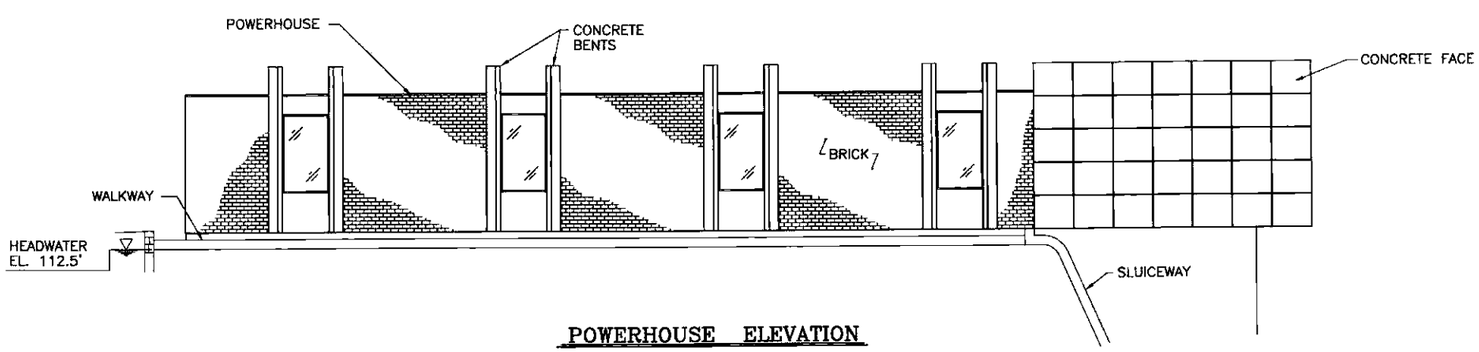
ENGINEERING DEPT.
AUG 15 1974
S. D. WARREN CO.
A DIVISION OF SCOTT PAPER CO.



POWERHOUSE PLAN



SECTION B



POWERHOUSE ELEVATION

8 0 8 16
SCALE IN FEET

NO.	REVISIONS	MADE BY / CHK.BY	DATE

Kleinschmidt Associates
Consulting Engineers
Pittsfield, Maine

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S. D. W. EQUIPMENT SYSTEMS NUMBERS

814-01.60-013	
876-000.60-004	
876-118.60-000	
814-01.60-000	

HYDRO ELECTRIC
LITTLE FALLS
POWERHOUSE PLAN AND SECTION

S. D. WARREN CO.
WESTBROOK, MAINE

DESIGN		SCALE	AS SHOWN
DRAWN	HWF	JOB ORDER	
APPROVED		DEPT	814-01
CHECKED	MCS	DATE	12-8-97
DWG NO.	CB-63341	SHT. NO. 2 of 2	REV. 0

EXHIBIT F SHEET 2 OF 2

LITTLE FALLS PROJECT
FERC NO. 2941

POWERHOUSE PLAN AND SECTION

S.D. WARREN COMPANY
WESTBROOK, MAINE

KA 023-057B 9/03

Kleinschmidt Associates
Consulting Engineers
Pittsfield, Maine

SHEET NO.	OF	Drawn by: TWG Date: 12-08-97	Date	Chkd.	Revision
B-		Checked by: Date:			
		Approved by: Date:			
		Scale: AS SHOWN			

NOTE: ALL ELEVATIONS ARE U.S.G.S. DATUM

Katahdin
ANALYTICAL SERVICES

FAX TRANSMISSION

Sent from Revised formula received in fall, 2001

Date: 12.7.01

To: Tom Howard

From: *Mike Cooney*

Fax No.: 857 1050

No. of Pages Including Cover Sheet: 2

Comments: Results for Fill Pile

I will sent over Mercury

Results when they are ready

Call w/ Questions. Mike

Katahdin Analytical
340 County Road No. 5
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

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Karahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Tom Howard

Lab Sample ID: WR 3875-001
Report Date: 12/7/2001
PO No.: 450 0120277
Project: DRE DGE SAND SAMPLING

Sample Description	Basis	Matrix	Percent Solids(%)	Date Sampled	Date Received
HYDROSTATION FILL PILE	DRY WT.	SL	95.9	11/15/2001	11/16/2001

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ALUMINUM	2410.	mg/Kg	26.	1	30.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ANTIMONY	<0.8	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ARSENIC	1.9	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
BARIUM	10.6	mg/Kg	0.4	1	0.5	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
BERYLLIUM	<0.50	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CADMIUM	<1.00	mg/Kg	0.869	1	1.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CALCIUM	B568.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	1
CHROMIUM	6.78	mg/Kg	1.30	1	1.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COBALT	<3.00	mg/Kg	2.60	1	3.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COPPER	3.44	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
IRON	4050.	mg/Kg	8.7	1	10.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
LEAD	8.55	mg/Kg	0.4	1	0.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MAGNESIUM	1210.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MANGANESE	54.3	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
NICKEL	5.64	mg/Kg	3.47	1	4.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
POTASSIUM	580.	mg/Kg	87.	1	100.	6010/200.7	11/28/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
SELENIUM	<1.0	mg/Kg	0.87	1	1.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SILVER	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SODIUM	<100.	mg/Kg	86.9	1	100.	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
THALLIUM	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
VANADIUM	6.29	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ZINC	18.2	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	

1 'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

DEC 7

Katahdin
ANALYTICAL SERVICES

FAX TRANSMISSION

Date: 12-7-01

To: Tom Howard

From: *Mike Cooney*

Fax No.: 857 1050

No. of Pages Including Cover Sheet: 2

Comments: [illegible] Hew's [illegible] Hg

DEC 7

Katahdin Analytical
340 County Road No. 5
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

The information contained in this facsimile transmission is privileged and confidential and intended for the use of the addressee named above. If the receiver of the following pages is not (one of) the above named recipient(s), you are hereby notified that any retention, dissemination, distribution, or copying of this facsimile is prohibited. If you receive this facsimile in error, please notify us immediately by telephone. Thank you.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Tom Howard

Lab Sample ID: WF 3875-001
Report Date: 12/ /2001
PO No.: 450 0120277
Project: DREDGE SAND SAMPLING

Sample Description	Basis	Matrix	Percent Solids(%)	Date Sampled	Date Received
HYDROSTATION FILL PILE	DRY WT.	SL	95.9	11/15/2001	11/16/2001

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ALUMINUM	2410.	mg/Kg	28.	1	30.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ANTIMONY	<0.8	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ARSENIC	1.9	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
BARIUM	10.6	mg/Kg	0.4	1	0.5	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
BERYLLIUM	<0.50	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CADMIUM	<1.00	mg/Kg	0.869	1	1.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CALCIUM	B568.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	1
CHROMIUM	8.78	mg/Kg	1.30	1	1.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COBALT	<3.00	mg/Kg	2.60	1	3.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COPPER	3.44	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
IRON	4050.	mg/Kg	8.7	1	10.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
LEAD	9.56	mg/Kg	0.4	1	0.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MAGNESIUM	1210.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MANGANESE	54.3	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MERCURY	<0.040	ug/g	0.032	1	0.040	7471/245.5	12/4/01	TRM	7471	12/1/01	TRM	RL01HGS2	
NICKEL	5.64	mg/Kg	3.47	1	4.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
POTASSIUM	580.	mg/Kg	87.	1	100.	6010/200.7	11/28/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
SELENIUM	<1.0	mg/Kg	0.87	1	1.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SILVER	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SODIUM	<100.	mg/Kg	86.9	1	100.	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
THALLIUM	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
VANADIUM	5.29	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ZINC	18.2	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	

1 'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

December 10, 2001

Mr. Tom Howard
Sappi Fine Paper, Technology Center
89 Cumberland Street
P.O. Box 5000
Westbrook, ME 04098-1597

RE: Katahdin Lab Number: WR3875
Project ID: DREDGE SAND SAMPLING
Project Manager: Mr. Michael Cooney
Sample Receipt Date(s): November 16,2001

Dear Mr. Howard:

Please find enclosed the following information:

* Report of Analysis
* Chain of Custody (COC)
* Confirmation

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Karen J Mahoney
Authorized Signature

12·10·01
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

www.katahdinlab.com

210 West Road No. 5
Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Tom Howard

Lab Sample ID: WR3875-001
Report Date: 12/7/2001
PO No.: 4500120277
Project: DREDGE SAND SAMPLING

Sample Description	Basis	Matrix	Percent Solids(%)	Date Sampled	Date Received
HYDROSTATION FILL PILE	DRY WT.	SL	95.9	11/15/2001	11/16/2001

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ALUMINUM	2410.	mg/Kg	26.	1	30.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ANTIMONY	<0.8	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ARSENIC	1.9	mg/Kg	0.7	1	0.8	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
BARIUM	10.6	mg/Kg	0.4	1	0.5	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
BERYLLIUM	<0.50	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CADMIUM	<1.00	mg/Kg	0.869	1	1.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
CALCIUM	B568.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	1
CHROMIUM	6.78	mg/Kg	1.30	1	1.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COBALT	<3.00	mg/Kg	2.60	1	3.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
COPPER	3.44	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
IRON	4050.	mg/Kg	8.7	1	10.	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
LEAD	9.55	mg/Kg	0.4	1	0.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MAGNESIUM	1210.	mg/Kg	4.3	1	5.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MANGANESE	54.3	mg/Kg	0.43	1	0.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
MERCURY	<0.040	ug/g	0.032	1	0.040	7471/245.5	12/4/01	TRM	7471	12/1/01	TRM	RL01HGS2	
NICKEL	5.64	mg/Kg	3.47	1	4.00	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
POTASSIUM	580.	mg/Kg	87.	1	100.	6010/200.7	11/28/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
SELENIUM	<1.0	mg/Kg	0.87	1	1.0	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SILVER	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
SODIUM	<100.	mg/Kg	86.9	1	100.	6010/200.7	11/27/01	EHZ	3050	11/19/01	JMP	RK19ICS0	
THALLIUM	<1.5	mg/Kg	1.3	1	1.5	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
VANADIUM	5.29	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	
ZINC	18.2	mg/Kg	2.17	1	2.50	6010/200.7	12/4/01	EAM	3050	11/19/01	JMP	RK19ICS0	

1 'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: Tom Howard
SAPPI FINE PAPERÝTECHNOLOGY CENTER
89 CUMBERLAND STREET
PO BOX 5000

WESTBROOK, ME 04098-1597

Lab Sample ID: WR3875-1
Report Date: 12/5/01 10:20:10 AM
PO No.: 4500120277
Project: DREDGE SAND SAMPLING
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
HYDROSTATION FILL PILE	SL	11/15/01	11/16/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	96 %	0.10	1	0.10	CLP SOW 788	12/4/1901	JF	CLP SOW 788	12/3/2001	JF	

Notes:

Revision: 0.00

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR3875

PAGE: 1 OF 1

COOLER: 1 OF 1

COC#
SDG#
DATE / TIME RECEIVED: 11/15/01 1508
DELIVERED BY: Reutenhan
RECEIVED BY: AmB
LIMS ENTRY BY: AmB
LIMS REVIEW BY / PM: WMC

CLIENT: SAPPI Paper

PROJECT:

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☐	☑	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or (N)	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☐ N/A
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS | RESOLUTION

TEMP BLANK TEMP (°C)=

COOLER TEMP (°C)= 5.6 # NA
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: * Walk-In Temp used

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: SAPPI PAPER / SD WARREN
Contact: JOE SAMPSON
Phone #: (207) 856-4364
Fax #: ( )

Address: 89 CUMBERLAND ST.
City: WESTBROOK
State: ME
Zip Code: 04092

Purchase Order #: 4500120277
Proj. Name / No.: DREDGE SAND SAMPLING
Katahdin Quote #:

Bill (if different than above): SHARED FINANCIAL SERVICES
Address: PO BOX 9004 WESTBROOK, ME 04098

Sampler (Print / Sign): BRIAN K. ROY

Copies To:

LAB USE ONLY
WORK ORDER #: WR35875
KATAHDIN PROJECT MANAGER: WMC

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	TAL METALS Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	Hydrostatic Fill Pile	11/15/01 1415	SL	1										
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OMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	11/15/01 1509				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-3875

Project Manager: Michael Cooney
ORDER DATE: 11/16/01
PHONE: 207/856-4286
FAX: 207/857-1050
DUE: 30 NOV

REPORT TO: Tom Howard
SAPPI FINE PAPER, TECHNOLOGY CENTER
89 CUMBERLAND STREET, PO BOX 5000,
WESTBROOK, ME 04098-1597

INVOICE: SHARED FINANCIAL SERVICES
SAPPI FINE PAPER, SD WARREN
PO BOX 5004
WESTBROOK, ME 04098

PO: 4500120277

PROJECT: DREDGE SAND SAMPLING

SAMPLED BY: B.ROY DELIVERED BY: KATAHDIN DISPOSE: AFTER 16 DEC

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WR3875-1	HYDROSTATION FILL PILE	15 NOV 1415	16 NOV	SL

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Target Analyte List Metals, Total		1	145.00	145.00
Solids-Total Residue (TS)	CLP/CIP SO	1	0.00	0.00
TOTALS		1	145.00	145.00

OTHER CHARGES	QTY	PRICE	AMOUNT
2 Sampling Services	1	100.00	100.00

ORDER NOTE: QC-I
DREDGE SAND SAMPLING

INVOICE: With Report

TOTAL ORDER AMOUNT $245.00
This is NOT an Invoice

BKR/WEST.WMC(dw)/WMC
12-03Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

ADDENDUM
ORIGINAL CHAIN OF CUSTODY

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: SAPPI PAPER / SD WARREN
Contact: JOE SAMPSON
Phone #: (207) 856-4364
Fax #: ( )

Address: 89 CUMBERLAND ST.
City: WESTBROOK
State: ME
Zip Code: 04092

Purchase Order #: 4500120277
Proj. Name / No.: DREDGE SAND SAMPLING
Katahdin Quote #:

Bill (if different than above): SHARED FINANCIAL SERVICES
Address: PO BOX 9004 WESTBROOK, ME 04098

Sampler (Print / Sign): BRIAN K. ROY

Copies To:

LAB USE ONLY
WORK ORDER #: W23875
KATAHDIN PROJECT MANAGER: WMC

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	TAL METALS Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐
	Hydrostatic Fill Pile	11/15/01 1415	SL	1										
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	11/15/01 1509				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (877) 782-3311

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

WOODARD & CURRAN
Engineering • Science • Operations

CORPORATE OFFICES: Maine, Massachusetts,
New Hampshire, Connecticut, Florida
Operational offices throughout the U.S

August 15, 2005

Mr. Tom Howard
SAPPI Paper Co.
89 Cumberland Street
Westbrook, ME 04098

Dear Tom:

On August 2, 2005 four samples were collected from four separate locations around the stock piled sandy material removed from below the dam at the Little Falls Dam. All samples were submitted to Katahdin Analytical Services. The analyses of these samples have been completed and the dry weight results are summarized in the table below.

	Sample Results (mg/kg)				Regulatory* Standards (mg/kg)	
Analyte	**LF001**	**LF002**	**LF003**	**LF004**	**Section 5**	**Appendix A**
Arsenic	1.6	2.0	2.0	1.7	< 15	<5.375
Cadmium	<1.0	<1.0	<1.0	<1.0	<10	<10
Chromium	5.3	5.0	6.6	3.8	<950	<97,500/<47.5**
Lead	3.2	3.3	4.0	2.8	<375	<375
Mercury	<0.04	0.044	<0.04	<0.04	<60	<1.2
Benzo[a]anthracene	0.45	<0.34	<0.33	<0.34	<2	<11
Benzo[b]fluoranthene	0.47	<0.34	<0.33	<0.34	<5	<11
Benzo[k]fluoranthene	<0.33	<0.34	<0.33	<0.34	<49	<110
Benzo[a]pyrene	0.41	<0.34	<0.33	<0.34	<8	<1.1
Carbazole	<0.33	<0.34	<0.33	<0.34	<0.6	<7.5
Chrysene	0.5	<0.34	<0.33	<0.34	<160	<1100
Dibenz[a,h]anthracene	<0.33	<0.34	<0.33	<0.34	<3	<1.1
Indeno[1,2,3-cd]pyrene	<0.33	<0.34	<0.33	<0.34	<14	<11
PCB	<0.017	<0.017	<0.017	<0.017	<10	<4

*Maine Solid Waste Management Rules – Chapter 418
** Chromium III/ChromiumVI
PCB results apply to all Arochlors

The concentrations of all of the analytes are below the applicable standards found in Chapter 418 of the Maine Department of Environmental Protection's Solid Waste Management Rules.

Tom, it has been a pleasure working with you on this important project. We have also enclosed the raw laboratory data for your records. Please contact us if we may be of further assistance.

Sincerely,

David Dinsmore, Project Scientist
cc: Janet Robinson
Enclosures

Katahdin
ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Dave Dinsmore
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: WV3852-001
Report Date: 8/12/2005
PO No.:
Project: 980028/LITTLE FALLS

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
LF001	SL	99.4	08/02/2005	08/02/2005

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	1.6	mg/Kg	0.5	1	0.8	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CADMIUM	U 1.00	mg/Kg	0.613	1	1	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CHROMIUM	5.3	mg/Kg	0.92	1	1.5	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
LEAD	3.2	mg/Kg	0.3	1	0.5	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
MERCURY	U 0.040	ug/g	0.031	1	0.04	SW846 7471	8/3/05	MW	SW846 7471	8/3/05	MW	VH03HGS0	

Katahdin
ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Dave Dinsmore
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: WV3852-002
Report Date: 8/12/2005
PO No.:
Project: 980028/LITTLE FALLS

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
LF002	SL	95.8	08/02/2005	08/02/2005

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	2.0	mg/Kg	0.6	1	0.8	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CADMIUM	U 1.00	mg/Kg	0.725	1	1	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CHROMIUM	5.0	mg/Kg	1.1	1	1.5	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
LEAD	3.3	mg/Kg	0.4	1	0.5	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
MERCURY	0.044	ug/g	0.038	1	0.04	SW846 7471	8/3/05	MW	SW846 7471	8/3/05	MW	VH03HGS0	

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Dave Dinsmore
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: WV3852-003
Report Date: 8/12/2005
PO No.:
Project: 980028/LITTLE FALLS

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
LF003	SL	99.0	08/02/2005	08/02/2005

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	2.0	mg/Kg	0.6	1	0.8	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CADMIUM	U 1.00	mg/Kg	0.707	1	1	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CHROMIUM	6.6	mg/Kg	1.0	1	1.5	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
LEAD	4.0	mg/Kg	0.4	1	0.5	SW846 6010	8/10/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
MERCURY	U 0.040	ug/g	0.036	1	0.04	SW846 7471	8/3/05	MW	SW846 7471	8/3/05	MW	VH03HGS0	

Katahdin
ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Dave Dinsmore
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: WV3852-004
Report Date: 8/12/2005
PO No.:
Project: 980028/LITTLE FALLS

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
LF004	SL	96.0	08/02/2005	08/02/2005

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	1.7	mg/Kg	0.5	1	0.8	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CADMIUM	U 1.00	mg/Kg	0.643	1	1	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
CHROMIUM	3.8	mg/Kg	0.96	1	1.5	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
LEAD	2.8	mg/Kg	0.3	1	0.5	SW846 6010	8/9/05	MRG	SW846 3050	8/4/05	JWM	VH04ICS0	
MERCURY	U 0.040	ug/g	0.038	1	0.04	SW846 7471	8/3/05	MW	SW846 7471	8/3/05	MW	VH03HGS0	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/04/05
Analysis Date: 11-AUG-2005 17:19
Report Date: 08/12/2005
Matrix: SOIL
% Solids: 99.4

Lab ID: WV3852-1
Client ID: LF001
SDG: WV3852
Extracted by: GN
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 8082
Lab Prep Batch: WG19267
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	17	1.0	17	17
Aroclor-1221	U	17	1.0	17	17
Aroclor-1232	U	17	1.0	17	17
Aroclor-1242	U	17	1.0	17	17
Aroclor-1248	U	17	1.0	17	17
Aroclor-1254	U	17	1.0	17	17
Aroclor-1260	U	17	1.0	17	17
Tetrachloro-m-xylene		71%			
Decachlorobiphenyl		76%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/04/05
Analysis Date: 11-AUG-2005 17:47
Report Date: 08/12/2005
Matrix: SOIL
% Solids: 95.8

Lab ID: WV3852-2
Client ID: LF002
SDG: WV3852
Extracted by: GN
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 8082
Lab Prep Batch: WG19267
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	18	1.0	17	18
Aroclor-1221	U	18	1.0	17	18
Aroclor-1232	U	18	1.0	17	18
Aroclor-1242	U	18	1.0	17	18
Aroclor-1248	U	18	1.0	17	18
Aroclor-1254	U	18	1.0	17	18
Aroclor-1260	U	18	1.0	17	18
Tetrachloro-m-xylene		48%			
Decachlorobiphenyl		* 50%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/04/05
Analysis Date: 11-AUG-2005 18:16
Report Date: 08/12/2005
Matrix: SOIL
% Solids: 99.0

Lab ID: WV3852-3
Client ID: LF003
SDG: WV3852
Extracted by: GN
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 8082
Lab Prep Batch: WG19267
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	17	1.0	17	17
Aroclor-1221	U	17	1.0	17	17
Aroclor-1232	U	17	1.0	17	17
Aroclor-1242	U	17	1.0	17	17
Aroclor-1248	U	17	1.0	17	17
Aroclor-1254	U	17	1.0	17	17
Aroclor-1260	U	17	1.0	17	17
Tetrachloro-m-xylene		54%			
Decachlorobiphenyl		* 55%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/04/05
Analysis Date: 11-AUG-2005 18:44
Report Date: 08/12/2005
Matrix: SOIL
% Solids: 96.0

Lab ID: WV3852-4
Client ID: LF004
SDG: WV3852
Extracted by: GN
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 8082
Lab Prep Batch: WG19267
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	18	1.0	17	18
Aroclor-1221	U	18	1.0	17	18
Aroclor-1232	U	18	1.0	17	18
Aroclor-1242	U	18	1.0	17	18
Aroclor-1248	U	18	1.0	17	18
Aroclor-1254	U	18	1.0	17	18
Aroclor-1260	U	18	1.0	17	18
Tetrachloro-m-xylene		52%			
Decachlorobiphenyl		70%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/09/05
Analysis Date: 10-AUG-2005 21:11
Report Date: 08/11/2005
Matrix: SOIL
% Solids: 99.4

Lab ID: WV3852-1
Client ID: LF001
SDG: WV3852
Extracted by: KF
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG19428
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Carbazole	U	330	1.0	330	330
Benzo(a)anthracene		450	1.0	330	330
Chrysene		500	1.0	330	330
Benzo(b)fluoranthene		470	1.0	330	330
Benzo(k)fluoranthene	U	330	1.0	330	330
Benzo(a)pyrene		410	1.0	330	330
Indeno(1,2,3-cd)pyrene	U	330	1.0	330	330
Dibenzo(a,h)anthracene	U	330	1.0	330	330
Nitrobenzene-D5		85%			
2-Fluorobiphenyl		89%			
Terphenyl-D14		*142%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/09/05
Analysis Date: 10-AUG-2005 21:56
Report Date: 08/11/2005
Matrix: SOIL
% Solids: 95.8

Lab ID: WV3852-2
Client ID: LF002
SDG: WV3852
Extracted by: KF
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG19428
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Carbazole	U	340	1.0	330	340
Benzo(a)anthracene	U	340	1.0	330	340
Chrysene	U	340	1.0	330	340
Benzo(b)fluoranthene	U	340	1.0	330	340
Benzo(k)fluoranthene	U	340	1.0	330	340
Benzo(a)pyrene	U	340	1.0	330	340
Indeno(1,2,3-cd)pyrene	U	340	1.0	330	340
Dibenzo(a,h)anthracene	U	340	1.0	330	340
Nitrobenzene-D5		103%			
2-Fluorobiphenyl		107%			
Terphenyl-D14		*150%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/09/05
Analysis Date: 10-AUG-2005 22:41
Report Date: 08/11/2005
Matrix: SOIL
% Solids: 99.0

Lab ID: WV3852-3
Client ID: LF003
SDG: WV3852
Extracted by: KF
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG19428
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Carbazole	U	330	1.0	330	330
Benzo(a)anthracene	U	330	1.0	330	330
Chrysene	U	330	1.0	330	330
Benzo(b)fluoranthene	U	330	1.0	330	330
Benzo(k)fluoranthene	U	330	1.0	330	330
Benzo(a)pyrene	U	330	1.0	330	330
Indeno(1,2,3-cd)pyrene	U	330	1.0	330	330
Dibenzo(a,h)anthracene	U	330	1.0	330	330
Nitrobenzene-D5		108%			
2-Fluorobiphenyl		107%			
Terphenyl-D14		*157%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: 980028/LITTLE FALLS
PO No:
Sample Date: 08/02/05
Received Date: 08/02/05
Extraction Date: 08/09/05
Analysis Date: 10-AUG-2005 23:25
Report Date: 08/11/2005
Matrix: SOIL
% Solids: 96.0

Lab ID: WV3852-4
Client ID: LF004
SDG: WV3852
Extracted by: KF
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG19428
Units: ug/Kg

Compound	Flags	Results	DF	PQL	Adj.PQL
Carbazole	U	340	1.0	330	340
Benzo(a)anthracene	U	340	1.0	330	340
Chrysene	U	340	1.0	330	340
Benzo(b)fluoranthene	U	340	1.0	330	340
Benzo(k)fluoranthene	U	340	1.0	330	340
Benzo(a)pyrene	U	340	1.0	330	340
Indeno(1,2,3-cd)pyrene	U	340	1.0	330	340
Dibenzo(a,h)anthracene	U	340	1.0	330	340
Nitrobenzene-D5		100%			
2-Fluorobiphenyl		96%			
Terphenyl-D14		*140%			

NORTHEAST TEST CONSULTANTS

COPY

ENVIRONMENTAL ASSESSMENT for SOILS

at

LITTLE FALLS HYDRO STATION
US ROUTE 4/202
WINDHAM, MAINE

NTC JOB #13141-2012

Prepared by:

NORTHEAST TEST CONSULTANTS
587 SPRING STREET
WESTBROOK, ME 04092

Prepared for:

Mr. Brad Goulet
Engineering Department
SAPPI Westbrook
P.O. Box 5000
Westbrook, Maine 04098-1597

June 28, 2012

NORTHEAST TEST CONSULTANTS

June 29, 2012

Mr. Brad Goulet
Engineering Department
SAPPI Westbrook
P.O. Box 5000
Westbrook, Maine 04098-1597

RE: Soil Testing for Disposal Considerations
Little Falls Hydro Station
Windham, Maine
NTC Job #13141-2012

Dear Mr. Goulet:

Northeast Test Consultants has completed the requested soil testing for disposal considerations associated with a dirt pile at the Little Falls Hydro Station situated off US Route 4/202 in Windham, Maine.

PURPOSE

On June 11, 2012, *Northeast Test Consultants* was onsite at the subject property to visually evaluate and collect soil samples for analytical determination of soil disposition for classifying said soils in accordance with US EPA Title 40, Chapter 1, Sub-Chapter 1- Solid Wastes, Part 261 – Identification & Listing of Hazardous Waste.

PROCEDURES

Soil testing consisted of the collection of soil samples for analysis of the following:

RCRA Metals	SW 846 6010B
Mercury	SW 846 7471A
PCB's	EPA 608 SW 846 8082
Corrosivity	SW 846 Chapter 7
Flash Point	ASTM D 93
Semi-Volatiles	EPA 625 SW 846 8270
Volatiles	EPA 624 SW 846 8260
Total Solids	CLP 4F

Any conclusions contained herein are limited by the scope of work performed; no warranty, expressed or implied, is indicated as to any surface or sub-surface conditions not specifically noted within this report.

587 Spring Street • Westbrook • Maine 04092 (207) 854-3939 FAX (207) 854-3658

OBSERVATIONS

Soil samples were collected for a dirt pile located along the southern side of the driveway access and along the waters edge.

The soil pile was comprised primarily of a medium to fine particle size quartz sand. Some minor paving debris material and vegetative growth was also present.

The soil pile is comprised of approximately 115 cubic yards of material with an estimated weight of 155 tons.

ANALYSIS REVIEW

Total Solids

The soil collected had a total solid value of 96.09%.

Corrosivity

Corrosivity for the soil is not of concern as it's pH value is greater than 2 and less than 12.5.

Flash Point

Flash point for the soil is not of concern as it's flash point is >160 ^{0}F.

RCRA Metals

No levels of concern for Arsenic, Barium, Cadmium, Chromium, Lead , Selenium or Silver were detected.

Mercury

No level of concern for Mercury was detected.

Polychlorinated Biphenyls (PCB's)

No level of concern for Polychlorinated Biphenyls (PCB's) was detected.

Semi-Volatiles

No Semi-Volatile compounds of concern were detected.

Also, no Semi-Volatile compounds indicating the potential for DRO and PAH's were detected.

Volatiles

No Volatile compounds of concern were detected.

Also, Volatile compounds indicating the potential for halogenated VOC's and BTEX were detected.

SUMMARY of FINDINGS

Review of the sample data indicates that no hazardous constituents exist for the sampled soil pile.

Based on the test results, this soil pile may brought to any landfill, or utilized as inert fill for the site location or for offsite locations

Please review the attached analytical results for the collected soil samples and photograph log.

Should you have any questions please feel free to give me a call.

Sincerely,

John M. Boilard, RIHT
Operations Manager

Attachments

cc: Tom Howard, Sappi Westbrook Environmental Department
Jean Wheat; Sappi Westbrook Safety Department

RCRA 8 METALS & CORROSIVITY ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine
DIRT PILE

Date Collected:	June 11, 2012
Sample Location:	Soil Pile
Sample #:	**S-1A/S-1B**
	IHB2163001/IHB2163002

METALS — **Analytical Method: SW-846 6010B**

Analyte	LOD mg/kg	LOQ mg/kg	Result mg/kg
Arsenic	0.3	1.0	**4.1**
Barium	1	3	**9**
Cadmium	0.3	1.0	**None Detected**
Chromium	1	3	**27**
Lead	1	3	**4**
Selenium	0.3	1.0	**0.9 J**
Silver	0.3	1.0	**None Detected**

MERCURY — **Analytical Method: SW 846 7471A**

Analyte	LOD mg/kg	LOQ mg/kg	Result mg/kg
Mercury	0.02	0.05	**None Detected**

CORROSIVITY — **Analytical Method: SW 846 9045D**

Analyte	LOQ pH Units	Result pH
Corrosivity	0.01	**5.85**

TOTAL SOLIDS — **Analytical Method: CLP 4F**

Analyte	LOQ %	Result %
Total Solids	0.01	**96.09**

Key : mg/kg= milligrams per kilogram J = Estimated LOD = Limit of Detection
LOQ = Limit of Quantitation

Analytical Lab: *Analytics*

FLASH POINT
ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine
DIRT PILE

Date Collected:	June 11, 2012
Sample Location:	Soil Pile
Sample #:	**S-1C**
	IHB2163003

Parameter	**Analytical Method: SW-846 1010A**
	Results, °F
Flash Point	>160

Analytical Lab: *Analytics*

VOLATILE ORGANICS ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine
DIRT PILE

Date Collected:	June 11, 2012
Sample #:	**S-1D**
	IHB2163004

VOLATILES **Analytical Method: SW-846 8260B/5030B**

Analyte	Report Limit mg/kg	Result mg/kg
None Detected		

Key: mg/kg = milligrams per kilogram

Analytical Lab: *Analytics*

SEMI-VOLATILE ORGANICS ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine
DIRT PILE

Date Collected:	June 11, 2012
Sample #:	**S-1E**
	IHB2163005

SEMIVOLATILES **Analytical Method: SW-846 8270C**

Analyte	Report Limit mg/kg	Result mg/kg
None Detected		

Key: mg/kg = milligrams per kilogram

Analytical Lab: *Analytics*

POLYCHLORINATED BIPHENYL ANALYSIS RESULTS

Little Falls Hydro Station
Windham, Maine
DIRT PILE

Date Collected: June 11, 2012
Sample #: **S-1F**
IHB2163005

PCB'S **Analytical Method: EPA 8082**

Compound	LOQ, µg/kg	Result µg/kg
PCB-1016	33	**None Detected**
PCB-1221	33	**None Detected**
PCB-1232	33	**None Detected**
PCB-1242	33	**None Detected**
PCB-1248	33	**None Detected**
PCB-1254	33	**None Detected**
PCB-1260	33	**None Detected**

Key: LOQ = Limit of Quantitation µg/kg = micrograms per kilogram

Analytical Lab: *Analytics*

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

Report Number: 73073

Revision: Rev. 0

Re: NTC 308-12

Enclosed are the results of the analyses on your sample(s). Samples were received on 12 June 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
73073-1	06/11/12	S-1D	EPA 8260 Volatile Organics	
73073-2	06/11/12	S-1E/S-1F	EPA 8082 (PCBs only)	
	06/11/12	S-1E/S-1F	EPA 8270 Acid/Base Neutrals	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 6/19/2012

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AEL

MAINE ENVIRONMENTAL LABORATORY- Chain of Custody

One Main Street Yarmouth, Maine 04096-6716 (207) 846-6569 fax: (207) 846-9066
e-mail: melab@maine.rr.com

PROJECT MANAGER: W. Lach
TELEPHONE:
FAX # / E-MAIL:
COMPANY:
PURCHASE ORDER # / BILL TO:
ADDRESS:
PROJECT NAME: NTC308-12
SAMPLER NAME: J. Bollard

LABORATORY REPORT #:
Delivered by:

TURNAROUND REQUEST
☒ Standard 6/21
☐ Priority (SURCHARGE)
Quote #:

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION YES	FIELD FILTRATION NO	SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING DATE	SAMPLING TIME	Volatiles SW846 8260	Semi Volatiles SW846 8270	PCBs SW846 8082	LABORATORY IDENTIFICATION/ SUBCONTRACTOR
S-1D	2	vial		X	Soil		X	① methanol ② 4°C	6/11/12	0925	X			78073-1
S-1E/S-1F	1	4oz jar		X	Soil		X	4°C	"	"		X	X	-2

Analytical Report 78073 page 0006 of 7

Received within hold time ☐ yes ☐ no ☐ N/A
Received in good condition ☐ yes ☐ no ☐ N/A
Temp. Blank °C 10 /Frozen ice packs ☐ N/A
Samples received preserved ☐ yes ☐ no ☐ N/A
Custody seal present ☐ yes ☐ no

COMMENTS:

	DATE	TIME		DATE	TIME
RELINQUISHED BY SAMPLER:			RECEIVED BY:		
RELINQUISHED BY:	6/12/12	11:35	RECEIVED BY:		
RELINQUISHED BY:			RECEIVED BY LABORATORY:		

MAINE ENVIRONMENTAL LABORATORY- Chain of Custody

One Main Street Yarmouth, Maine 04096-6716 (207) 846-6569 fax: (207) 846-9066
e-mail: melab@maine.rr.com

LABORATORY REPORT # UTC 308-12

Delivered by HAND JMB

PROJECT MANAGER: JOHN BOILARD
TELEPHONE: 207-854-3939
FAX # / E-MAIL: johnb@netest.com
COMPANY: NORTHEAST TEST CONSULTANTS
PURCHASE ORDER # / BILL TO: 13141-2012 NTC
ADDRESS: 507 SPRING STREET ; WEST BROOK, MAINE 04092
PROJECT NAME: LITTLE FALLS HYDRO
SAMPLER NAME: JOHN BOILARD

TURNAROUND REQUEST
☒ Standard
☐ Priority (SURCHARGE)
Quote # _____

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION YES	FIELD FILTRATION NO	SAMPLE MATRIX	GRAB	COMP	METHOD PRESERVED	SAMPLING DATE	SAMPLING TIME	RCRA METALS SW846 6010	CORROSIVITY SW846 CHAPTER 7	FLASHPOINT ASTM D 93	VOLATILES EPA 624 SW846 8260	SEMI VOLATILES EPA 625 SW846 8270 PRIOR TO 1986 8270						LABORATORY IDENTIFICATION/ SUBCONTRACTOR
S-1A									6/11/12	0925	X										
S-1B	1	4oz		X	Soil		X	N/A	6/11/12	0925		X									01 MB
S-1C	2	8oz		X	Soil		X	Methanol	6/11/12	0925			X								02 MB
S-1D	2	VOA		X	Soil		X	N/A	6/11/12	0925				X							ME
S-1E/S-1F	1	4oz		X	Soil		X	N/A	6/11/12	0926					X						ME

Received within hold time ☒ yes ☐ no ☐ N/A
Received in good condition ☒ yes ☐ no ☐ N/A
Temp. Blank °C 3.6 (Frozen ice packs) ☐ N/A
Samples received preserved ☒ yes ☐ no ☐ N/A
Custody seal present ☐ yes ☐ no

COMMENTS
S-1A and S-1B are one sample in one container (S-1A/S-1B) KH 6/11/12 as per TNS conversation w/ Mr. Boilard

RELINQUISHED BY SAMPLER:	DATE 6/11/12	TIME 1032	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 6/11/12	TIME 1032	RECEIVED BY LABORATORY:

COC-04

page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 73073

CLIENT: MEI

PROJECT: NTC 308-12

COOLER NUMBER: 260

NUMBER OF COOLERS: 1

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JBB

DATE COOLER RECEIVED/OPENED: 6/12/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y (NA)

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler? Y (N)
How many & where: Seal Date: Seal Name:

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)

6. COC#:

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? (Y) N

8. Were custody papers sealed in a plastic bag? (Y) N

9. Did you sign the COC in the appropriate place? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 10C

B. Log-In: Date samples were logged in: 6/12/12 By: JBB

11. Were all bottles sealed in separate plastic bags? Y (N)

12. Did all bottles arrive unbroken and were labels in good condition? (Y) N

13. Were all bottle labels complete(ID,Date,time,etc.) Y (N) only sample name

14. Did all bottle labels agree with custody papers? (Y) N

15. Were the correct containers used for the tests indicated: (Y) N

16. Were samples received at the correct pH? Y (NA)

17. Was sufficient amount of sample sent for the tests indicated? (Y) N

18. Were all samples submitted within holding time? (Y) N

19. Were all containers used within expiration date? (Y) N

20. Were VOA samples absent of greater than pea-sized bubbles? Y (NA)
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatile data.)

*If NO, List Sample ID's, Lab #s:

When bubbles are present in VOA samples they are labelled (from smallest for no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first.

20. Laboratory labeling verified by (initials): CP Date: 6/12/12

ANALYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 5, 5/17/12

Maine Environmental Laboratory

Report of Analyses

One Main Street Yarmouth, Maine 04096-1107 Tel (207) 846-6569 Fax (207) 846-9066 e-mail: melab@maine.rr.com

John Boilard
Northeast Test Consultants
587 Spring St.
Westbrook, ME 04092

June 26, 2012

Report No.: NTC308-12

Enclosed are the results of the analyses requested for your samples as received by the laboratory. Samples were received in acceptable condition and analyzed within method holding times. All quality control data was within laboratory acceptance limits unless noted. The Limit of Quantitation (LOQ) is the minimum level for reporting quantitative data. The Limit of Detection (LOD) is the minimum level for reporting estimated data. Data reported between the Limit of Quantitation and Limit of Detection are J flagged as estimated. Maine Environmental Laboratory is certified by Maine (cert. #2011036), New Hampshire NELAP (NHELAP) (cert. #2031) and Connecticut (PH #0103). A list of certified parameters is available on request. The results reported herein conform to the most current NELAP standards where applicable unless otherwise narrated in this report. This report shall not be reproduced except in full without the written consent of the laboratory.

The complete report consists of the following sections:

- Maine Environmental Laboratory report
- Chain of custody form
- Analytics Environmental Laboratory report

References

EPA - EPA600/4-79-020, Methods for Chemical Analysis of Water and Wastes, USEPA, Cincinnati, Ohio, March 1983.
EPA1 - EPA/600/R-93/100 Methods for the Determination of Inorganic Substances in Environmental Samples, Aug. 1993.
EPA2 - EPA/600R-94/111, Methods for the Determination of Metals in Environmental Samples, Supplement 1, May, 1994.
EPA3-EPA/600/R-06/115,Determination of Trace Elements in DW by Axially Viewed ICP-Atomic Emission Spectrometry,Rev 4.2 Oct. 2003
STM - Standard Methods for the Examination of Water and Wastewater, 18th edition, APHA,AWWA,WPCF, 1992.
SW8 - SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition, 1986.
CLP - USEPA CLP Statement of Work for Inorganics, ILMO3.0.
HACH - Chemical Oxygen Demand, Method 8000, Hach Handbook of Water Analysis, Hach Chemical Company, 1979.
HEX - EPA-821-R-98-002, Method 1664, Rev. A: N-Hexane Extractable Material by Extraction and Gravimetry, Feb. 1999.
AOA - Official Methods of Analysis of the Association of Official Analytical Chemists, 14th edition, 1984.

Authorized signature Walter A. Lach

Walter A. Lach, Laboratory Director

analytics

158 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-5151
800-922-1996

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

June 18, 2012

SAMPLE DATA

Lab Sample ID:	73073-1
Matrix:	Solid
Percent Solid:	97
Dilution Factor:	99
Collection Date:	06/11/12
Lab Receipt Date:	06/12/12
Analysis Date:	06/15/12

CLIENT SAMPLE ID

Project Name:	NTC 308-12
Project Number:	
Field Sample ID:	S-1D

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	99	U	1,3-Dichloropropane	99	U
Bromobenzene	99	U	cis-1,3-Dichloropropene	99	U
Bromochloromethane	99	U	trans-1,3-Dichloropropene	99	U
Bromodichloromethane	74	U	2,2-Dichloropropane	99	U
Bromoform	74	U	1,1-Dichloropropene	99	U
Bromomethane	99	U	Ethylbenzene	99	U
n-butylbenzene	99	U	Hexachlorobutadiene	99	U
sec-butylbenzene	99	U	Isopropylbenzene	99	U
tert-butylbenzene	99	U	p-isopropyltoluene	99	U
Carbon Tetrachloride	99	U	Methylene Chloride	495	U
Chlorobenzene	99	U	Methyl-tert-butyl ether (MTBE)	74	U
Chloroethane	99	U	Naphthalene	99	U
Chloroform	74	U	n-Propylbenzene	99	U
Chloromethane	99	U	Styrene	99	U
2-Chlorotoluene	99	U	1,1,1,2-Tetrachloroethane	99	U
4-Chlorotoluene	99	U	1,1,2,2-Tetrachloroethane	74	U
Dibromochloromethane	74	U	Tetrachloroethene	99	U
1,2-Dibromo-3-chloropropane	99	U	Toluene	99	U
1,2-Dibromoethane	74	U	1,2,3-Trichlorobenzene	99	U
Dibromomethane	99	U	1,2,4-Trichlorobenzene	99	U
1,2-Dichlorobenzene	99	U	1,1,1-Trichloroethane	99	U
1,3-Dichlorobenzene	99	U	1,1,2-Trichloroethane	74	U
1,4-Dichlorobenzene	99	U	Trichloroethene	99	U
Dichlorodifluoromethane	99	U	Trichlorofluoromethane	99	U
1,1-Dichloroethane	99	U	1,2,3-Trichloropropane	99	U
1,2-Dichloroethane	74	U	1,2,4-Trimethylbenzene	99	U
1,1-Dichloroethene	74	U	1,3,5-Trimethylbenzene	99	U
cis-1,2-Dichloroethene	99	U	Vinyl Chloride	99	U
trans-1,2-Dichloroethene	99	U	o-Xylene	99	U
1,2-Dichloropropane	74	U	m,p-Xylene	99	U
Acetone	990	U	Diethyl ether	99	U
Carbon Disulfide	99	U	2-Hexanone	990	U
Tetrahydrofuran	495	U	Methyl isobutyl ketone	990	U
Methyl ethyl ketone	990	U	Di-isopropyl ether (DIPE)	99	U
t-Butyl alcohol (TBA)	1980	U	Ethyl t-butyl ether (ETBE)	99	U
t-Amyl methyl ether (TAME)	99	U	1,3,5-Trichlorobenzene	99	U
			1,4-Dioxane	2970	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane	89 %	d8-Toluene	91 %	Bromofluorobenzene	95 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample collection in accordance with SW-846 method 5035A. Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

Authorized signature

8260 (009 + Dioxane Rev(73)(Rev(3)

analytics environmental laboratory LLC

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800-925-9906

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

June 14, 2012

SAMPLE DATA

Lab Sample ID:	73073-2
Matrix:	Solid
Percent Solid:	96
Dilution Factor:	1.0
Collection Date:	06/11/12
Lab Receipt Date:	06/12/12
Extraction Date:	06/12/12
Analysis Date:	06/13/12

CLIENT SAMPLE ID

Project Name: NTC 308-12

Project Number:

Field Sample ID: S-1E/S-1F

PAGE ONE

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg	ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg
2-Chlorophenol	360	U	Pentachlorophenol	720	U
4-Chloro-3-methylphenol	720	U	Phenol	720	U
2,4-Dichlorophenol	360	U	2,4,5-Trichlorophenol	510	U
2,4-Dimethylphenol	360	U	2,4,6-Trichlorophenol	360	U
2,4-dinitrophenol	720	U	Benzoic Acid	1000	U
4,6-Dinitro-2-methylphenol	720	U	2-Methylphenol	720	U
2-Nitrophenol	720	U	3+4-Methylphenol	720	U
2,6-Dichlorophenol	510	U	Benzyl Alcohol	720	U
4-Nitrophenol	720	U	2,3,4,6-Tetrachlorophenol	720	U

Acid Surrogate Standard Recovery

2-Fluorophenol	43 %	d5-Phenol	48 %	2,4,6-Tribromophenol	86 %

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
1,2-Dichlorobenzene	510	U	Hexachlorobenzene	360	U
1,3-Dichlorobenzene	510	U	* Benzidine	510	U
1,4-Dichlorobenzene	360	U	3,3'-Dichlorobenzidine	510	U
2,4-Dinitrotoluene	360	U	Azobenzene	510	U
2,6-Dinitrotoluene	510	U	Bis(2-chloroethoxy)methane	510	U
Nitrobenzene	510	U	bis(2-chloroethyl) ether	360	U
Hexachlorobutadiene	510	U	bis(2-chloroisopropyl)ether	360	U
Dimethyl Phthalate	510	U	4-bromophenyl phenyl ether	510	U
Di-n-butyl phthalate	510	U	Butyl benzyl phthalate	510	U
di-n-octyl-phthalate	510	U	4-Chlorophenyl phenyl ether	510	U
Bis (2-ethylhexyl) phthalate	510	U	Diethyl Phthalate	510	U
1,2,4-Trichlorobenzene	510	U	Hexachlorocyclopentadiene	510	U

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

Authorized signature

8270/625 layout

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-436-5181
800-922-9926

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

June 14, 2012

SAMPLE DATA

Lab Sample ID:	73073-2
Matrix:	Solid
Percent Solid:	96
Dilution Factor:	1.0
Collection Date:	06/11/12
Lab Receipt Date:	06/12/12
Extraction Date:	06/12/12
Analysis Date:	06/13/12

CLIENT SAMPLE ID

Project Name: NTC 308-12

Project Number:

Field Sample ID: S-1E/S-1F

PAGE TWO

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Acenaphthene	270	U	N-nitrosodimethylamine	510	U
Acenaphthylene	270	U	N-nitroso-di-n-propylamine	510	U
Anthracene	270	U	n-nitrosodiphenylamine	510	U
Benzo[a]anthracene	270	U	Pyridine	510	U
Benzo[a] pyrene	270	U	2-Methylnaphthalene	270	U
Benzo[b] fluoranthene	270	U	2-Chloronaphthalene	270	U
Benzo[k] fluoranthene	270	U	Naphthalene	270	U
Benzo(g,h,i) perylene	270	U	Phenanthrene	270	U
Chrysene	270	U	Dibenzofuran	270	U
Dibenz [a,h] anthracene	270	U	Aniline	510	U
Fluoranthene	270	U	4-Chloroaniline	510	U
Fluorene	270	U	2-Nitroaniline	510	U
Indeno [1,2,3-cd] pyrene	270	U	3-Nitroaniline	510	U
Pyrene	270	U	4-Nitroaniline	510	U
Hexachloroethane	360	U	Carbazole	270	U
Isophorone	510	U			

Base Neutral Surrogate Standard Recovery

2-Fluorobiphenyl	53	%	d5-nitrobenzene	44	%	d14-p-terphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

COMMENTS: *Due to the reactive nature of this compound, the Benzidine quantitation limit is estimated.
Results are expressed on a dry weight basis.

8270/625 layout

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-436-2161
800-923-4926

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

June 19, 2012

SAMPLE DATA

Lab Sample ID:	73073-2
Matrix:	Solid
Percent Solid:	96
Dilution Factor:	1.0
Collection Date:	06/11/12
Lab Receipt Date:	06/12/12
Extraction Date:	06/13/12
Analysis Date:	06/18/12

CLIENT SAMPLE ID

Project Name:	NTC 308-12
Project Number:	
Field Sample ID:	S-1E/S-1F

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Lewis

Maine Environmental Laboratory

Report of Analyses

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John Boilard
Northeast Test Consultants
587 Spring St.
Westbrook, ME 04092

June 26, 2012

Report No:	NTC308-12	Sampler:	J. Boilard
Date received:	06/11/12	Sampling date:	06/11/12
Project ID:	Little Falls Hydro	Sample matrix:	Soil
Laboratory ID:	NTC30812-01	Sample ID:	S-1A/S-1B

Data reported on a dry weight basis.

Parameter	Results	units	Date Analyzed	LOD	LOQ	Method	Reference
Arsenic, total	4.1	mg/kg	06/18/12	0.3	1.0	3050B/6010B	SW8
Barium, total	9	mg/kg	06/18/12	1	3	3050B/6010B	SW8
Cadmium, total	ND	mg/kg	06/18/12	0.3	1.0	3050B/6010B	SW8
Chromium, total	27	mg/kg	06/18/12	1	3	3050B/6010B	SW8
Lead, total	4	mg/kg	06/18/12	1	3	3050B/6010B	SW8
Mercury, total	ND	mg/kg	06/19/12	0.02	0.05	7471A	SW8
Selenium, total	0.9 J	mg/kg	06/18/12	0.3	1.0	3050B/6010B	SW8
Silver, total	ND	mg/kg	06/18/12	0.3	1.0	3050B/6010B	SW8
Corrosivity	5.85	pH units	06/11/12		0.01	9045D	SW8
Total Solids	96.09	%	06/11/12		0.01	CLP 4F	CLP

ND = not detected J = estimated B = detected in blank S = DLs increased due to sample matrix

Maine Environmental Laboratory

One Main Street Yarmouth, Maine 04096-1107 Tel.: (207) 846-6569 Fax: (207) 846-9066 Email: melab@maine.rr.com

Report of Analyses

John Boilard
Northeast Test Consultants
587 Spring St.
Westbrook, ME 04092

June 26, 2012

Report No:	NTC308-12	Sampler:	J. Boilard
Date received:	06/11/12	Sampling date:	06/11/12
Project ID:	Little Falls Hydro	Sample matrix:	Soil
Laboratory ID:	NTC30812-02	Sample ID:	S-1C

Data reported on an as received basis.

Parameter	Results	units	Date Analyzed	LOD	LOQ	Method	Reference
Flash Point	>160	°F	06/12/12			1010A	SW8

ND = not detected J = estimated B = detected in blank $ = DLs increased due to sample matrix

PHOTOGRAPH LOG
LITTLE FALLS HYDRO STATION
Windham, Maine

View of soil pile assessed and composite sample areas from north/northwest side of pile.

View of soil pile assessed and composite sample areas from north side of pile.

PHOTOGRAPH LOG
LITTLE FALLS HYDRO STATION
Windham, Maine

View of soil pile assessed and composite sample areas from westerly side of pile.

Typical hand excavation to sample soils with in soil pile not subject to surface volatilization.

PHOTOGRAPH LOG
LITTLE FALLS HYDRO STATION
Windham, Maine

Illustration of predominant matrix of soil pile comprised of medium to fine quartz sand.

TRANSFORMER

NO. 87

CLASS Type SL

TEMP. RISE 55/65°C

PHASE 3

KVA 1500-55°C Rise
1680-65°C Rise

VOLTAGES 11,000-2,300 Y/1328

CONNECTIONS

IMPEDANCE 5.44% at 1500 KVA - 11,000-2,300Y

MANUFACTURER Westinghouse

SERIAL NO. SAV3396-01

OTHER INFORMATION Oil Cap-500 gal.
Weight-12,280 lbs.
Inst. Book-PS-100

LOCATION CENTRAL HYDRO STATION

PCB DATA 44 ppm - Tested 1/12/81 - Sample #77

PAGE NO.	OF
1	1

PURCHASE REQUISITION

PURCHASE ORDER NO.

THIS REQUEST MUST BE SIGNED BY PERSON AUTHORIZED TO APPROVE AMOUNT SHOWN

SUGGESTED VENDOR

SUNOHIO
1515 BANK PLACE S.W.
CANTON, OHIO 44706

ATTN: RODNEY HERNDON,
1-888-786-6446

REQ. DATE	REQUISITIONED BY	DELIVERY TO	MUST ARRIVE S. D. WARREN BY:
7/29/98	BARRY STEMM\ENG	BARRY STEMM	8/ 6/ 98

AUTHORIZED APPROVAL	OTHER APPROVAL	CHEMICAL APPROVAL
Barry Stemm	7/29	

ITEM NO.	QUANTITY	DESCRIPTION	CHARGE	PRICE
		Provide labor to sample and analyze transformer fluids as detailed below.	59622 814-02-827	
1	93	Mineral Oil Units at $ 30.00 ea		$2790.00
2	11	Silicone units at $ 34.00 ea		$374.00
3	6	Dissolved Gas Analysis at $ 40.00 ea		$240.00
		Full Package Fluid Quality Tests to Include: Color, Dielectric, Interfacial Tension, Water, Specific Gravity, Acidity, Visual, Pwr Factor, PCB Analysis in Fluid		

Tests 1994

FOR PURCHASING USE ONLY:

ATTN:
PHONE:

VENDOR NUMBER	BUYER APPROVAL	QUOTE NUMBER	PAYMENT TERMS	TAXABLE / NON-TAXABLE

SHIP VIA: PREPAID / COLLECT — S. D. WARREN ABSORBS FREIGHT / VENDOR ABSORBS FREIGHT

TITLE AND RISK OF LOSS WILL PASS TO BUYER AT: ORIGIN / DESTINATION

REQUISITIONED BY: Barry L. Stemm /ENG

DELIVERY TO:
Engineering office

sappi
warren

SUNOHIO
1515 BANK PLACE, S.W.

CANTON, OH 44710

330-452-0837

INVOICE IN DUPLICATE TO:

S.D. Warren Company
ATTN. ACCOUNTS PAYABLE
89 Cumberland Street
P.O. Box 5000
Westbrook, ME 04098-1597

PURCHASE ORDER

PURCHASE ORDER NO.
47494

SHOW THIS NUMBER ON ALL PACKAGES, PACKING DOCUMENTS, INVOICES, BILLS OF LADING, AND CORRESPONDENCE

DATE Thursday, July 30, 1998

1. **THIS ORDER IS EXEMPT FROM MAINE SALES/USE TAX- UNDER REGULATION 8 CERTIFICATE NO. 40010.**
2. **PLEASE ACKNOWLEDGE ORDER PROMPTLY AND REFER INQUIRES TO** Richard H. Levasseur
3. **PHONE AREA CODE 207-856-4000 FAX 207-856-4592**

SHIP TO: S.D. WARREN, RECEIVING DEPT. - 89 CUMBERLAND ST., WESTBROOK, ME 04092

ITEM NO.	DESCRIPTION	CHARGED TO
	Confirmed to: RODNEY on 7/30/98	
	All work is to be performed as per the details of our General Agreement and attached riders.	
	DESCRIPTION/SCOPE: LABOR, MATERIAL AND EQUIPMENT TO SAMPLE AND ANALYZE THE TRANSFORMER FLUIDS AS DETAILED BELOW:	827-02-827 59622
	93 EACH MINERAL OIL UNITS @ $30.00 EACH 11 EACH SILICONE UNITS @ $34.00 EACH 6 EACH DISSOLVED GAS ANALYSIS @ $40.00 EACH	
	FULL PACKAGE FLUID QUALITY TESTS TO INCLUDE: COLOR, DIELECTRIC, INTERFACIAL TENSION, WATER, SPECIFIC GRAVITY, ACIDITY, VISUAL, POWER FACTOR, PCB ANALYSIS IN FLUID	
	PRICE: $3,404.00	
	FIRM NO PRICE INCREASES WILL BE ALLOWED UNLESS APPROVED BY S.D. WARREN IN WRITING.	
	METHOD OF PAYMENT/TERMS OF PAYMENT: Upon receipt of invoice NET 30 DAYS	
	TIME SCHEDULE: Must arrive at S.D. Warren by 8/6/98	
	IDENTIFICATION OF REPRESENTATIVES **S.D. WARREN:** All technical correspondence/questions should be directed to Barry L. Stemm at (207) 856-4584 All commerical correspondence/questions should be directed to Richard H. Levasseur at (207) 856-4689 **VENDOR:** All correspondence/questions should be directed to RODNEY.	
	SPECIAL NOTE: All shipping documents, invoices, packages, crates, boxes, etc., MUST be clearly marked with the S.D. Warren Purchase Order number.	

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE SIDE. NO TERMS AND CONDITIONS OTHER THAN THOSE STATED HEREIN SHALL BE BINDING UPON WARREN WITHOUT WARRENS WRITTEN APPROVAL THEREOF, EXCEPT THAT, IF A GENERAL AGREEMENT IS IN FORCE BETWEEN THE PARTIES, THE TERMS AND CONDITIONS STATED THEREIN SHALL APPLY.

BY Richard H. Levasseur
PURCHASING DEPT.

DELIVERY DATE: Thursday, August 06, 1998

REQUISITIONER

REQUISITIONED BY: Barry L. Stemm

DELIVERY TO:
Engineering office

sappi
warren

SUNOHIO
1515 BANK PLACE, S.W.

CANTON, OH 44710

330-452-0837

INVOICE IN DUPLICATE TO:

S.D. Warren Company
ATTN. ACCOUNTS PAYABLE
89 Cumberland Street
P.O. Box 5000
Westbrook, ME 04098-1597

PURCHASE ORDER

PURCHASE ORDER NO.

47494

SHOW THIS NUMBER ON ALL PACKAGES, PACKING DOCUMENTS, INVOICES, BILLS OF LADING, AND CORRESPONDENCE

DATE Thursday, July 30, 1998

1. **THIS ORDER IS EXEMPT FROM MAINE SALES/USE TAX- UNDER REGULATION 8 CERTIFICATE NO. 40010.**
2. **PLEASE ACKNOWLEDGE ORDER PROMPTLY AND REFER INQUIRES TO** Richard H. Levasseur
3. **PHONE AREA CODE 207-856-4000 FAX 207-856-4592**

SHIP TO: S.D. WARREN, RECEIVING DEPT. - 89 CUMBERLAND ST., WESTBROOK, ME 04092

ITEM NO.	DESCRIPTION	CHARGED TO
	<u>OZONE DEPLETION STATEMENT</u> SELLER WARRANTS THAT NONE OF THE PRODUCTS SUPPLIED HEREUNDER NEED BE LABELED TO BE IN COMPLIANCE WITH REGULATIONS ON PROTECTION OF STRATOSPHERIC OZONE, 58 F.R. 8136 ET SEQ.	

THIS ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE SIDE. NO TERMS AND CONDITIONS OTHER THAN THOSE STATED HEREIN SHALL BE BINDING UPON WARREN WITHOUT WARRENS WRITTEN APPROVAL THEREOF, EXCEPT THAT, IF A GENERAL AGREEMENT IS IN FORCE BETWEEN THE PARTIES, THE TERMS AND CONDITIONS STATED THEREIN SHALL APPLY.

BY Richard H. Levasseur
PURCHASING DEPT.

DELIVERY DATE: Thursday, August 06, 1998

REQUISITIONER

Original Results 98

SUNOHIO

infotest Laboratory Services Full Package Report

TRANSFORMER INSPECTION ANALYTICAL REPORT FOR: S.D. Warren Company

Contact: Barry Stemm
Phone: 207-856-4584

Serial Number & Location: **SAV3396-01 T87 Central Hydro Station**

Sub Area	Outdoor	*Equipment Type*	Transformer	*Oil Filled Switch*	no
Hose Length	150' feet	Pop Top	*no*	*Oil Circuit Breaker*	no
Power Avail.	no volts	Regulator	no	Tap Compartment	no

Nameplate Data:

Manufacturer	Westinghouse	*Primary Voltage*	11k	*Liquid Weight*	3750	*Oil Switch Gal*	no
Serial Number	SAV3396-01	*Sec Voltage*	2300/1328	*Prim Bush*	gasketed	*Tap Comp Gal*	no
KVA	1500/1680	*Phase*	3	*Sec Bush*	gasketed	*Amperage*	n/a
Liquid Type	Mineral Oil	*Liquid Gallons*	500	*T - Number*	T87	*Interrupting Cap.*	n/a
Humidity	n/a	*Gross Weight*	12280	*OCB Gallons*	no		

Equipment Data:

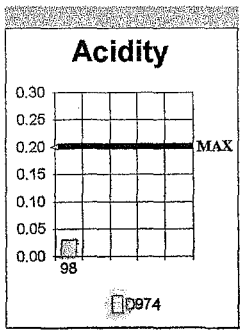
Liquid Level	25 oC	*Oil Filled Bush*	no	*Cons Tank*	no	*Total Height*	6'
Indicating Temp	40 oC	*Fans*	no	*Tap Changer*	side	*Total Width*	4'
Peak Temp	120 oC	*Water-cooled*	no	*Paint*	req'd	*Total Depth*	3'
Pressure	+1 lb	*Welded Lid*	yes	*Top Valve Dia*	1"	*Top Mount Bush*	yes
Nitrogen Tap	yes	*Radiators*	yes	*Bot Valve Dia*	2"	*Removable Radiators*	n/a

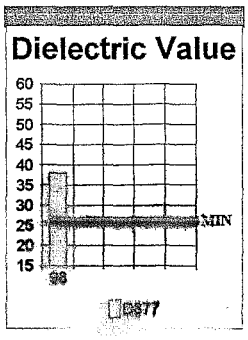
Inspection Report	Recommended Transformer Services
1. Fluid level is low.	1. Add insulating fluid to correct level.
2. Level gauge, pressure gauge and temperature gauge are dysfunctional.	2. Replace gauges.
3. IFT is approaching minimum acceptable level.	3. Sample for preventive maintenance in one year.
4.	4.

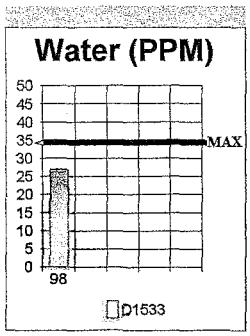
Fluid Analysis:

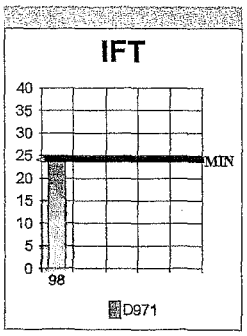
	Sample Date	Color D1500	Visual D1524	Acidity D974	Dielectric KV D877	Water ppm D1533	IFT dynes/cm D971	Power fac @25c D924	Specific Gravity D1298	PCB ppm EPA8080
1	07-Aug-98	1.0	clear	0.030	38	27	25	0.10	0.890	11
2										
3										
4										
5										

Dehy-drate	Reclaim/ Retrofill	Schedule Re-sample
		08/07/99









infotest Laboratory Services Summary Report

Serial Number	Location	Fluid	KVA	GALLONS	Date Sampled	Color D1500	Visual D1524	Acidity D974	Die KV D877	Water ppm D1533	IFT dyn/cm D971	Power Factor D924	Specific Gravity D1298	PCB ppm EPA 8080	D.G.A. D3612B	AGE ppm D2668
SAT4163-0101	T99	#14 PM Sub for #9 PM	Mineral Oil	2500	341	07-Aug-98	0.5	clear	0.01	36	21	27	0.03	0.88	BDL	n/a	n/a
SAT4502-0101	T103	Research	Mineral Oil	2500	342	05-Aug-98	1	clear	0.02	46	23	27	0.03	0.89	BDL	n/a	n/a
SAT4605-0101	T111	Spare	Mineral Oil	1500/1680	305	06-Aug-98	1	clear	0.02	43	33	26	0.02	0.89	BDL	n/a	n/a
SAT4605-0102	T112	Outdoor Sub	Mineral Oil	1500/1680	305	05-Aug-98	1	clear	0.02	41	32	32	0.02	0.89	BDL	n/a	n/a
SAT4606-0101	T110	Outdoor Sub	Mineral Oil	1500/1680	301	05-Aug-98	1	clear	0.02	40	34	**16**	0.02	0.89	BDL	n/a	n/a
SAT4814-0101	T107	LEPS	Mineral Oil	2500/2800	352	06-Aug-98	1	clear	0.02	39	33	25	0.04	0.89	BDL	n/a	n/a
SAT4814-0201	T105	Bleach Plant	Mineral Oil	2500	352	06-Aug-98	1	clear	0.01	41	32	24	0.02	0.89	BDL	n/a	n/a
SAT4814-0202	T104	Bleach Plant	Mineral Oil	2500	352	06-Aug-98	1	clear	0.02	33	32	25	0.03	0.88	BDL	n/a	n/a
SAT4816-0101	T108	LEPS	Mineral Oil	2500/2800	285	06-Aug-98	1	clear	0.02	29	33	26	0.03	0.89	BDL	n/a	n/a
SAT4817-0101	T106	Bleach Plant	Mineral Oil	1500	272	06-Aug-98	1	clear	0.02	37	18	33	0.02	0.89	BDL	n/a	n/a
SAT6013-0101	T116	Spare	Mineral Oil	2500/2800	324	06-Aug-98	0.5	clear	0.04	29	33	40	0.01	0.89	BDL	n/a	n/a
SAT7496-0101	T96	Refiner Room Sub	Mineral Oil	2500/2800	291	06-Aug-98	0.05	clear	0.01	36	32	26	0.04	0.88	BDL	n/a	n/a
SAT7731-0101	T114	Outdoor Sub	Mineral Oil	2500	341	05-Aug-98	0.5	clear	0.04	**23**	30	33	0.04	0.87	BDL	n/a	n/a
SAT7843-0101	T115	#14 PM Sub	Mineral Oil	2500/2800	281	07-Aug-98	0.5	clear	0.02	32	33	36	0.02	0.87	BDL	n/a	n/a
SAV3396-01	T87	Central Hydro Station	Mineral Oil	1500/1680	500	07-Aug-98	1	clear	0.03	38	27	25	0.1	0.89	11	n/a	n/a
SAV3397-01	T63	Bulk Handling Sub	Mineral Oil	1500/1680	381	06-Aug-98	1.5	clear	0.02	27	**41**	33	0.1	0.89	35	n/a	n/a
SAV411202	T39	Pri. Treatment Plant	Mineral Oil	1500/1680	n/a	06-Aug-98	1.5	clear	0.04	**23**	35	**21**	0.11	0.88	BDL	n/a	n/a
SAV4122-01	T61	Pri. Treatment Plant	Mineral Oil	1500	426	05-Aug-98	1.5	clear	0.02	44	11	33	0.04	0.83	BDL	n/a	n/a
SAV4123-01	T40	Sec Treatment Plant	Mineral Oil	1000/1120	369	05-Aug-98	1.5	clear	0.01	**20**	34	29	0.04	0.88	BDL	n/a	n/a
SAV4123-02	T62	Sec Treatment Plant	Mineral Oil	1000/1170	369	05-Aug-98	1	clear	0.02	30	13	28	0.04	0.88	BDL	n/a	n/a
SAV8133-01	T68	Outdoor Sub	Mineral Oil	1500/1680	324	05-Aug-98	0.5	clear	0.01	28	31	28	0.04	0.87	BDL	n/a	n/a
SAV8134-01	T69	Eastside Winder Pulper Sub	Mineral Oil	1500/1680	n/a	05-Aug-98	1.5	clear	0.02	31	**38**	30	0.06	0.89	BDL	n/a	n/a
SAV8135-01	T80	Mallison Hydro Station	Mineral Oil	1000/1120	236	07-Aug-98	1.5	clear	0.02	28	33	27	0.04	0.87	BDL	n/a	n/a
SBB0056-0100	T137	West Side Refining Sub	Silicone	2500/2800	280	07-Aug-98	n/a	clear	0.01	42	68	n/a	0.05	0.97	BDL	n/a	n/a

The results shaded yellow indicate unacceptable levels!

T - No	Status	Ph	KVA	Voltage	Mfg	Serial No	Location	Area	Fluid Type	Fluid Gals	Mfg Date
47	Disposed of 10/87	1	400	11,000-480	WEST.	1213892					1948
48	Disposed of 10/87	1	400	11,000-480	WEST.	1213893					1948
49	Disposed of 10/87	1	400	11,000-480	WEST.	1213894					1948
50	ACTIVE	3	1000	11,000-480 Y/277	A-C	3793662	SOLVENT COATER SUB.	3	Mineral Oil	414	1956
51	SPARE	3	1000	11,000-480 V/277	A-C	3359509	PONDEROSA Spare	1A	Mineral Oil	425	1965
52	Disposed of 3/83	1	600	11,000-440	WEST.	146621					1925
53	Disposed of 3/83	1	600	11,000-440	WEST.	146626					1925
54	Disposed of 10/96	1	600	11,000-440	WEST.	146625					1925
55	Disposed of 10/96	1	600	11,000-440	WEST.	146622					1925
56	Disposed of 10/96	1	600	11,000-440	WEST.	146624					1925
57	ACTIVE	3	750	11,000-480 Y/277	WEST.	6538019	BARK BOILER SUB	1A	Mineral Oil		1958
58	ACTIVE	3	1500/1725 1680/193	11,000-2,300 Y/1330	A-C	4-954-704	TRUCK DUMP SUB.	1	Mineral Oil	435	1969
59	ACTIVE	3	2000/2500	11,000-4160 Y/2400	G.E.	7152548	WOODROOM SUB.	1	Mineral Oil	585	
60	ACTIVE	3	1000	11,000-480 Y/277	A-C	4000046	WOODROOM SUB.	1	Mineral Oil	414	1961
61	ACTIVE	3	1500	11,000-480 Y/277	WEST.	SAV-4122-01	Pri. Treatment Plant	1	Mineral Oil	426	1975
62	ACTIVE	3	1000/1170	11,000-480 Y/277	WEST.	SAV-4123-02	Sec. Treatment Plant	1	Mineral Oil	369	1975
63	ACTIVE	3	1500/1680	11,000-480 Y/277	WEST.	SAV-3397-01	BULK HANDLING SUB.	1A	Mineral Oil	381	1976
64	ACTIVE	3	1500/1725	11,000-480 Y/277	G.E.	L-249238B	#2 P.M. DRIVES	2	Mineral Oil		1969
65	ACTIVE	3	1500	11,000-480 Y/277	G.E.	F-964294B	ULTRACAST COATER	3	Mineral Oil	375	1976
66	Disposed of 11/96	3	1500	11,000-480	A-C	2390437					1948
67	Disposed of 9/85	3	1500	11000-2200 Y/1270	WEST.	VBR 4247-1					
68	SPARE	3	1500/1680	11,000-480 Y/277	WEST.	SAV-8133-01	OUTDOOR SUB.		Mineral Oil	324	1980
69	ACTIVE	3	1500/1680	11,000-2,400 Y/1386	WEST.	SAV-8134-01	Eastside Winder Pulper Sub.	3	Mineral Oil		1980
70	Disposed of 3/82	3	2,500/2,800	11,000-2,300 Y/1327	WEST.	SBV-2832-01					1957
71	ACTIVE	3	15,000/20,000/25,000	36.1 KV/13.8 KV	G.E.	L252782	Park Road-Utility Tie (CMP)	1A	Mineral Oil	3710	1981
72	ACTIVE	3	15,000/20,000	13.8/11KV	G.E.	L252783B	MILL TIE-BIOMASS	1A	Mineral Oil	1750	1981
73	ACTIVE	3	15,000/20,000	13.8/11KV	G.E.	L252783A	MILL TIE-BIOMASS	1A	Mineral Oil	1750	1981
74	ACTIVE	3	3750/4200	13.8/4160y	WEST	SET 1424-0101	#21 BOILER STATION	1A	Silicone	506	1981
75	ACTIVE	3	2500/2800 3125/350	13.8KV/480Y	WEST	PAT 8227-0101	#21 BOILER STATION	1A	Silicone	299	1981
76	ACTIVE	3	2000/2240	13.8KV/4160Y	WEST	SBT1423-0101	BIOMASS WOODYARD	1A	Mineral Oil	271	1981
77	ACTIVE	3	2500/2800 3125/3500	13.8KV/480Y	WEST	PAT 8226-0101	BIOMASS WOODYARD	1A	Mineral Oil	288	1981
78	ACTIVE	3	1500/1680	11,000 KV-2,300V	WEST	SCT 1930-0101	#3 RECOVERY BOILER	1A	Mineral Oil	249	1981
79	ACTIVE	3	1500/1680	11KV/480Y	WEST	PAT 8228-0101	FEEDWATER AREA	1A	Silicone	244	1981
80	ACTIVE	3	1000/1120	11,000-600 Y/346	WEST	SAV-8135-01	Mallison Hydro Station	1A	Mineral Oil	236	1978
81	ACTIVE	1	1200	11,000-480	WEST	6530360	EAST SIDE SUB.-SPARE	3	Mineral Oil		1936
82	Disposed of 6/87	1	185	2250/117.5	WEST	316608					1948
83	SPARE	1	333	2400/4160Y-120/240	A-C	3153029	PONDEROSA Spare	1A	Mineral Oil	163	1956
84	ACTIVE	1	450	2300-614/120	WEST	193255	EAST SIDE Sw Room	3	Mineral Oil		1925
85	Disposed of 11/96	1	185	2250/117.5	WEST	316609					1925
86	ACTIVE	3	2500/3125	11,000/4330Y/2500	G.E.	9157331	Gambo Hydro Station	1A	Mineral Oil	1220	1950
87	ACTIVE	3	1500/1680	11,000-2,300 Y/1328	WEST	SAV3396-01	Central Hydro Station	1A	Mineral Oil	500	1976
88	ACTIVE	3	2500/2800	11,000V-480V	WEST	SCT 1900-0101	Refiner Room Sub	1	Mineral Oil	344	1982
89	ACTIVE	3	1000	11,880-550	R.E.	18078	Mallison Hydro Station	1A	Mineral Oil	800	1935
90	ACTIVE	3	2500/2800	11,000-480V	WEST	SCT 1900-0102	#3 RECOVERY	1A	Mineral Oil	344	1981
91	ACTIVE	3	2500/2800	11,000V-2300	WEST	SCT 2193-0101	#27 Stack West End , #14 P.M.	2	Mineral Oil	316	1982
92	ACTIVE	3	1000/11200	11,000V-480Y	WEST	SAT 1482-0101	RESEARCH		Mineral Oil	272	1981

Infotest Laboratory Services Summary Report

	Serial Number	Location	Fluid	KVA	GALLONS	Date Sampled	Color D1500	Visual D1524	Acidity	Dis KV	Water ppm	IFT dyn/cm	Power Factor	Specific Gravity D1298	PCB ppm EPA 8080	D.G.A. D3612B
RE-TEST	5042186	T37	#2 Paper Mach	Mineral Oil	1500/1680	435	07-Aug-98	0.5	clear	0.01	26	30	28	0.02	0.89	9	N/A
✓	3689948	T36	Jordan & Stanley	Mineral Oil	1200	486	07-Aug-98	1	clear	0.01	21	34	30	0.03	0.88	16	N/A
✓	3689947	T35	Jordan & Stanley	Mineral Oil	1250	486	07-Aug-98	1.5	clear	0.01	18	33	31	0.04	0.89	6	N/A
	5-020-793	T34	Research Lab	Mineral Oil	750	450	05-Aug-98	0.5	clear	0.01	30	9	30	0.03	0.89	7	N/A
✓	G852896	T33	Research Gambo Hydro	Mineral Oil	750/862	180	07-Aug-98	1.5	clear	0.03	30	35	31	0.03	0.88	48	N/A
✓	3472431	T30	Spare	Mineral Oil	1500/1729	n/a	06-Aug-98	1	clear	0.04	18	29	23	0.02	0.88	25	N/A
	SBV2833-01	T24	#14 Paper Machine Sub	Mineral Oil	1500	486	07-Aug-98	1	clear	0.02	27	32	31	0.03	0.88	5	N/A
RE-TEST	SCT1900-0102	T90	#3 Recovery Boiler	Mineral Oil	2500/2800	344	06-Aug-98	1	clear	0.03	25	25	30	0.03	0.87	BDL	N/A
	PAT8226-0101	T77	Biomass Woodyard	Mineral Oil	2800/3125	288	06-Aug-98	1	clear	0.01	29	19	26	0.03	0.87	BDL	N/A
	SBT1423-0101	T76	Biomass Woodyard	Mineral Oil	2000/2240	271	06-Aug-98	1	clear	0.01	39	17	30	0.02	0.87	BDL	N/A
	M122314TC	T93	Biomass Utility Tie	Mineral Oil	n/a	150	06-Aug-98	<.5	clear	0.01	24	34	33	0.03	0.87	BDL	Pass
? → ✓	M122314	T93	Biomass Utility Tie	Mineral Oil	30/40/50	6750	06-Aug-98	1	clear	0.01	21	34	29	0.02	0.87	BDL	Fail
	SAT1482-0101	T92	Research	Mineral Oil	1000/1120	292	06-Aug-98	1	clear	0.03	39	32	30	0.03	0.87	BDL	N/A
	SCT1930-0101	T78	#3 Recovery	Mineral Oil	1500/1680	249	06-Aug-98	1	clear	0.01	41	31	32	0.03	0.87	BDL	N/A
RE-TEST	18078	T89	Mallison Hydro Station	Mineral Oil	1000	800	07-Aug-98	2	clear	0.13	37	34	19	0.07	0.89	9	N/A
	SCT1900-0101	T88	Refiner Room Sub	Mineral Oil	2500/2800	344	06-Aug-98	1	clear	0.02	38	34	29	0.04	0.87	BDL	N/A
→	SAV3396-01	T87	Central Hydro Station	Mineral Oil	1500/1680	500	07-Aug-98	1	clear	0.03	38	27	25	0.1	0.89	11	N/A
	9157331	T86	Gambo Hydro Station	Mineral Oil	2500/3125	1220	07-Aug-98	1.5	clear	0.03	34	28	26	0.04	0.88	5	N/A
✓	193255	T84	East Side Sw Room	Mineral Oil	450	n/a	05-Aug-98	2	clear	0.48	39	45	14	0.12	0.85	BDL	N/A
RE-TEST	3153029	T83	Ponderosa Spare	Mineral Oil	333	163	06-Aug-98	1.5	clear	0.03	36	32	18	0.03	0.88	2	N/A
RE-TEST	6530060	T81	East Side Sub-Spare	Mineral Oil	1200	n/a	05-Aug-98	1	clear	0.02	24	30	27	0.07	0.88	6	N/A
	SAV8135-01	T80	Mallison Hydro Station	Mineral Oil	1000/1120	236	07-Aug-98	1.5	clear	0.02	28	33	27	0.04	0.87	BDL	N/A
	M-154264	T109	Filter Plant	Silicone	1500/1680/1932	281	05-Aug-98	<.5	clear	0.01	41	98	n/a	0.01	0.96	BDL	N/A

The results shaded yellow indicate unacceptable levels!

Stemm, Barry

11:00 AM. WED.

From: Berube, Leo
Sent: Friday, August 27, 1999 5:31 PM
To: Stemm, Barry; Labrecque, Guy; Pepin, Raymond; Hills, Bruce
Subject: RE: Transformer T-87

Ray
Please give me your thoughts on what types of environmental risk this posses. Does it change as the level of PCB's (PPM) change?
Thanks
Leo

-----Original Message-----
From: Stemm, Barry
Sent: Friday, August 27, 1999 1:28 PM
To: Berube, Leo; Labrecque, Guy; Pepin, Raymond; Hills, Bruce
Subject: Transformer T-87

The latest transformer fluid analysis report shows T-87, located at Central Hydro Station, has a high PCB level.

The latest sample taken in June 1999 shows the PCB level for T-87 is 51 PPM. The 1998 level was 11 PPM. Having PCB levels rise between samples is not uncommon, even with transformers that have been retrofilled. The PCB's leach out from porous materials internal to the transformer, such as paper insulation between winding turns, and can rise over time. I will re-sample this unit in the near future to get a feel for the rate of contamination rise and to verify the latest June 1999 sample.

This situation concerns me greatly because T-87 is set directly above the river with no containment in the event an oil leak. Even if a new sample shows a PCB level something between 11 and 51 PPM, I would strongly recommend that we dispose of this transformer (or retrofill and keep as a mill spare) and install a new one, in another location, not directly above the river.

Barry Stemm

PreCapex 2000
Correspondence

Stemm, Barry

From: Pepin, Raymond
Sent: Monday, August 30, 1999 7:50 AM
To: Stemm, Barry; Berube, Leo; Labrecque, Guy; Hills, Bruce
Subject: RE: Transformer T-87

Barry,

The transformer should be removed as soon as reasonably possible from this sensitive location. In the meantime, we would be wise to have the line crew visually inspect it when they visit Central and log the inspection results. Any indication of leakage or a potential leak must be dealt with immediately. I see no reason not to do what you suggested i.e. remove, retrofill and use it as a mill spare.

Ray

-----Original Message-----
From: Stemm, Barry
Sent: Friday, August 27, 1999 1:28 PM
To: Berube, Leo; Labrecque, Guy; Pepin, Raymond; Hills, Bruce
Subject: Transformer T-87

The latest transformer fluid analysis report shows T-87, located at Central Hydro Station, has a high PCB level.

The latest sample taken in June 1999 shows the PCB level for T-87 is 51 PPM. The 1998 level was 11 PPM. Having PCB levels rise between samples is not uncommon, even with transformers that have been retrofilled. The PCB's leach out from porous materials internal to the transformer, such as paper insulation between winding turns, and can rise over time. I will re-sample this unit in the near further to get a feel for the rate of contamination rise and to verify the latest June 1999 sample.

This situation concerns me greatly because T-87 is set directly above the river with no containment in the event an oil leak. Even if a new sample shows a PCB level something between 11 and 51 PPM, I would strongly recommend that we dispose of this transformer (or retrofill and keep as a mill spare) and install a new one, in another location, not directly above the river.

Barry Stemm

TRANSFORMER

S.D.W. TRANSFORMER NUMBER: 87

APPROX IN SERVICE

TRANSFORMER LOCATION: CENTRAL HYDRO STATION

YEAR: 1976

CLASS: SL

TEMP RISE: 65 'C

PHASE: 3 FREQUENCY: 60

STATIS: ACTIVE

KVA : 1500 AT 55'C RISE
1680 AT 65'C RISE

VOLTAGE: 11,000-2,300 Y/1328

CONNECTION:

TAPS:

IMPEDANCE: 5.44

MANUFACTURER: WESTINGHOUSE

OIL GALLONS

MANUFACTURED DATE :

500

SERIAL NUMBER: SAV3396-01

OTHER INFORMATION: INTS. BOOK PS-100

HV=

LV=

PCB DATA: 44 PPM TESTED 1/12/81
SAMPLE #77***

	WEIGHT
CASE	12,280
CORE & COIL	
OIL	
TOTAL	12,280

DEPLW-1206

SURFACE WATER AMBIENT TOXICS MONITORING PROGRAM

2010

FINAL REPORT

DIVISION OF ENVIRONMENTAL ASSESSMENT
MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
AUGUSTA, MAINE 04333

April 2011

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INTRODUCTION

This 2010 Surface Water Ambient Toxic (SWAT) monitoring program final report is organized into an Executive Summary (with introduction and table of contents) and 4 modules, 1) Marine and Estuarine, 2) Lakes, 3) Rivers and Streams.

The full report is available on DEP's website at
http://www.maine.gov/dep/blwq/docmonitoring/swat/index.htm

Questions may be directed to authors of each study or to Barry Mower, DEP, SHS 17, Augusta, Maine 04333, tel: 207-215-0291, email: barry.f.mower@Maine.gov

Acknowledgements
Collection of samples was conducted by the principal investigators and technical assistants listed (DEP staff unless otherwise specified).

Chemical analyses were performed by AXYS Analytical Services, Sidney, British Columbia or other laboratories as listed in reports in individual sections.

EXECUTIVE SUMMARY

Maine's Surface Water Ambient Toxics (SWAT) monitoring program was established in 1993 (38 MRSA §420-B) to determine the nature, scope and severity of toxic contamination in the surface waters and fisheries of the State. The authorizing statute states that program must be designed to comprehensively monitor the lakes, rivers and streams, and marine and estuarine waters of the State on an ongoing basis. The program must incorporate testing for suspected toxic contamination in biological tissue and sediment, may include testing of the water column and must include biomonitoring and the monitoring of the health of individual organisms that may serve as indicators of toxic contamination. This program must collect data sufficient to support assessment of the risks to human and ecological health posed by the direct and indirect discharge of toxic contaminants.

The Commissioner of the Department of Environmental Protection (DEP) must prepare a 5-year conceptual workplan in addition to annual workplans which are each reviewed by a Technical Advisory Group (TAG). The TAG is composed of 10 individuals, made up of 2 each with scientific backgrounds representing five various interests (business, municipal, conservation, public health and academic) and 2 legislators.

The SWAT program is divided into 4 modules, 1) Marine and Estuarine, 2) Lakes, 3) Rivers and Streams, and 4) Special Studies. This annual report follows the outline of the 2010 workplan recommended by the SWAT TAG in a meeting June 23, 2010. Following is a summary of key findings from the 2010 SWAT program for each module.

1. MARINE AND ESTUARINE

- In 2010, blue mussel tissue from Spring Point, South Portland, Crockett Point, Rockland, and Wadsworth Cove, Castine was analyzed for contaminants including metals, mercury, Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs), and organochlorinated pesticides.

- In 2010, softshell clam tissue from Morse Cove, Castine was tested and reported with data from seven other softshell clam sites sampled in 2004 and 2005. Clam tissue from selected sites was analyzed for contaminants including metals, mercury, PAHs, PCBs, and organochlorinated pesticides.

- In 2010, American lobster hepatopancreas and muscle tissues from 19 sites along the Maine coast were analyzed for PAHs, coplanar PCBs, and dioxins and furans. The U.S. Environmental Protection Agency (EPA), through the National Coastal Condition Assessment (NCCA), will be analyzing the same lobster tissues for metals, mercury, PCBs, and organochlorinated pesticides.

- Lead in mussel tissue exceeded the National Status and Trends (NS&T) Musselwatch 85th percentile concentration at Spring Point, South Portland, and Crockett Point, Rockland, both of which also exceeded the Maine Center for Disease Control's (MCDC) fish tissue action level (FTAL) for lead in finfish. Lead in clam tissue at Harris Cove, Eastport, Fort Point

Cove, Searsport, and Mast Cove, Eliot exceeded the MCDC fish tissue action level (FTAL) for lead in finfish.

- Mercury in mussel tissue exceeded the NS&T Musselwatch 85th percentile concentration at Spring Point, South Portland, Crockett Point, Rockland, and Wadsworth Cove, Castine, which resulted in assignment of an "elevated" classification. Mercury levels in mussel tissue at these sites were below the more conservative MCDC methylmercury developmental FTAL for finfish. Mercury in clam tissue also was below the MCDC methylmercury developmental FTAL for finfish.

- Chromium in mussel tissue exceeded the NS&T Musselwatch 85th percentile concentration at Spring Point, South Portland, which resulted in assignment of an "elevated" classification.

- PAHs in mussel and clam tissues did not exceed the NS&T Musselwatch 85th percentile and were not considered to be elevated.

- PCB concentrations in mussel tissue at Crockett Point, Rockland exceeded the MCDC cancer FTAL, which is consistent with elevated concentrations detected in 2007 at the same site. PCB concentrations in clam tissue were below the MCDC cancer FTAL.

- Organochlorinated pesticide concentrations in mussel and clam tissue were low at Maine sites compared to NS&T Musselwatch data, and pesticide levels were safely below MCDC FTAL values.

- Dioxin, furan, and coplanar PCB concentrations remain very high in lobster hepatopancreas (also known as tomalley), indicating the need to continue the MCDC advisory against consumption of lobster hepatopancreas. Concentrations of these contaminants in lobster muscle tissue remain very low in comparison to tomalley and to the MCDC FTAL, indicating lobster meat is still safe to eat.

2. LAKES

- Fish from 45 lakes were sampled and analyzed for mercury concentrations by a new quicker less expensive method using the Direct Mercury Analyzer 80 at the Sawyer Environmental Research and Chemistry Lab at the University of Maine in Orono. The results compared favorably with those from a subset of 22 lakes analyzed by a commercial lab using a more conventional method. There was no trend for fish from 26 lakes comparing 2010 results with those from the 1990s. The data were sent to the Maine Center for Disease Control and Prevention (MCDC) for use in reviewing the statewide Fish Consumption advisory.

3. RIVERS AND STREAMS

- Forty-two stations were assessed for the condition of the benthic macroinvertebrate community. Results have been received to date (June 10, 2011) for forty-one stations.

Twenty-six of these forty-one stations attained the aquatic life standards of their assigned class.

- Dioxin concentrations measured in fish from the West Branch of the Sebasticook River were lower than when last measured, but still exceed MCDC's Fish Tissue Action Level (FTAL). The dioxin concentrations in fish from the St. Croix River above Woodland are below the FTAL; dioxin-like coplanar PCBs were not measured in 2010, but in previous years the addition of the PCBs resulted in an exceedance of the FTAL.

- Fish captured from the Androscoggin River, Penobscot River below Millinocket, Presumpscot River in Gorham and Westbrook, and Sebasticook River at Newport and Burnham exceeded MCDC's FTAL for dioxins.

- A study of the Little Androscoggin River below the wastewater discharge from South Paris found no evidence of toxicity of the sediments to bottom dwelling organisms or of the river water to fish species, despite repeated exceedances of the copper limit in their discharge permit.

- A project funded at the University of Maine developed a new non-lethal method of detecting exposure of fish to organic contaminants using fish scales.

1.0 MARINE MODULE

PAGE
7

PRINCIPAL INVESTIGATOR Jim Stahlnecker

TECHNICAL ASSISTANTS Joseph Glowa
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SPECIAL THANKS Susanne Meidel
Karla Hyde
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Katy Morrison
Angela Dubois

1.1. INTRODUCTION

This work is funded by the Maine Coastal and Inland Surface Oil Clean-up Fund, which is administered by the Bureau of Remediation and Waste Management in the DEP.

Maine's coastline lies within, and lends its name to, the Gulf of Maine, a diverse and productive ecosystem. The Maine coast and the larger Gulf of Maine provide economic opportunities including commercial fisheries, aquaculture, recreational fisheries, commerce via shipping, and a wide variety of tourism activities. Maine includes the urbanized areas of Portland and Bangor, and has experienced growth and increased development especially in the southwestern portion of the state's coastline in recent years. With increased development, increases in chemical contaminants discharged to the marine environment may occur. Some contaminants can also become magnified as they move up the food chain, bioaccumulating at higher trophic levels and potentially causing impacts on the viability of marine species and ecosystem health, and causing concern about consequences to human health. All these reasons suggest that the monitoring of chemical contaminants is an important component of assessing the health of our marine environment here in Maine.

1.1.1 Blue Mussels

Blue mussels have been a long term focus of the marine SWAT sampling efforts over the years and were included again in the SWAT program this year. This report presents and summarizes contaminant data from the collection and analysis of blue mussel (*Mytilus edulis*) tissue collected in 2010 from three sites along the Maine coast. Mussel tissue samples were analyzed for heavy metals (including mercury), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), and organochlorinated pesticides. In order to provide comparability of results from these 2010 samples, blue mussel contaminant levels from the SWAT program are compared to blue mussel contaminant levels in other programs including the Gulfwatch program (Gulf of Maine Council on the Marine Environment) and the Mussel Watch Program (National Oceanographic and Atmospheric Administration). This analysis provides a regional and national context to the Maine SWAT data.

Blue mussels have been used extensively by the SWAT program (since 1986) and other monitoring programs as an indicator of exposure of marine environments to chemical pollutants. Mussels are ubiquitous and readily collected across the coast of Maine, as well as across the entire Gulf of Maine. Published information about contaminants in mussels provides some historical context and allows comparisons between geographic areas and over time. Since blue mussels are consumed as food by humans, they can be used to understand potential human exposure to contaminants. Mussels are sessile, allowing attribution of their contaminant burdens to the environment where they were collected. Mussels filter large volumes of water as they feed, allowing them to concentrate many chemicals from the water column or sediments suspended in the water column. This allows detection of contaminants in mussel tissue that are sometimes found below detection limits in particulate matter, sediment, or water. It also gives insight into the biologically available portion of contaminants, which may not readily be discerned from background sediment or water concentrations.

1.1.2 Softshell Clams

This report presents and summarizes contaminant data from the collection and analysis of softshell clam (*Mya arenaria*) tissue collected in 2010 from one site on the Maine coast. Also presented are softshell clam contaminant data from seven additional sites sampled in 2004-05 by the SWAT program. Softshell clam tissue samples from selected sites were analyzed for metals, mercury, PAHs, PCBs, and organochlorinated pesticides. In order to provide comparability of results from the 2010 and 2004-05 samples, softshell clam contaminant concentrations from SWAT sampling are compared to contaminant concentrations in the Gulfwatch program. This analysis provides some regional context to the Maine SWAT clam data.

Gulfwatch, primarily a blue mussel sampling program, also has some limited clam tissue contaminant data, the most recent collected at two sites in New Hampshire and two sites in Maine in 2008. Like blue mussels, softshell clams are consumed as food by humans and can be used to understand potential human exposure to contaminants. Clams are sessile, allowing attribution of their contaminant burdens to the environment where they were collected. Like mussels, clams filter large volumes of water as they feed, allowing them to concentrate many chemicals from the water column or sediments suspended in the water column.

Softshell clam stations sampled by the SWAT program in recent years have been selected to characterize contaminant concentrations specifically in clam tissue, as opposed to blue mussel tissue which may or may not have been sampled previously in the same general area. Gulfwatch and SWAT softshell clam tissue contaminant data suggest that clams may have very different concentrations of some contaminants than blue mussel tissue taken from the same stations. This is an important point when considering the contaminant concentrations that humans are exposed to when consuming clams. Clam testing is typically driven by human consumption and exposure, and clams are used less in SWAT (or Gulfwatch) as a general environmental monitor or sentinel like the blue mussel.

The Maine Dept. of Marine Resources has asked Maine DEP to sample clams in areas currently closed to shellfish harvest, which usually is due to bacterial contamination that prevents safe consumption of the clams by humans. Some significant clam resources have improving bacterial trends or may be candidates for additional work to reduce bacterial contamination in the vicinity of the resource. Without corresponding contaminant data from clam tissue to document safe human consumption, expenditure of resources to reduce bacterial contaminant sources might be premature if high contaminant concentrations are confirmed. Bacterial source clean up can then be targeted to clam resources that already have been documented as safe for human consumption from a contaminant concentration perspective. Like mussels, testing sites with low contaminant levels, which can only be determined post-sampling, still provides valuable data on background contaminant levels in clams and provides a context with which to compare more heavily contaminated sites.

1.1.3 American Lobster

This report presents data from American lobster (*Homerus americanus*) tissues collected in 2010. Lobsters were collected as part of EPA's National Coastal Condition Assessment (NCCA), which also provides data on water column parameters, sediment chemistry, and benthic community structure. In most states participating in NCCA, finfish are collected and used for fish tissue

contaminant analysis as part of the program. Some New England states have elected to collect lobster to fulfill the fish tissue portion of the NCCA, as Maine did in the last NCCA sampling effort in 2006 (and prior).

Lobster was selected to provide information concerning the quality of the benthic environment and because Maine has a fish consumption advisory on lobster hepatopancreas (tomalley) tissue. As predators and scavengers of benthic infauna and detritus on the sea bottom, lobsters ingest toxic contaminants and bioaccumulate those contaminants in their body tissues. Lobsters are ubiquitous along the Maine coast, allowing collections to take place along the entire coast and facilitating geographic comparisons. The lobster fishery is Maine's premier fishery, with the highest landed value of any commercial fishery in the state. In addition, Maine lobstermen strive to provide a high quality product and determining and assuring the quality of this product is of importance to the future sustainability of the fishery. This project builds upon early work done by DEP in 1994-1996 on contaminants in lobster tissues at several locations, and on previous sampling of lobster by NCCA in 2005-06 at many more locations along the Maine coast.

1.2 METHODS

Sites sampled in recent years within the context of this report can be divided in three types, based on the goals outlined above that drive the need for information from each site. These types are: Spatial, Temporal, and Follow Up sites. Sites that have never been sampled (or that have not been sampled for a long time), have been sampled for only one analyte type, or have been sampled with no replication are classified as "Spatial" sites. The primary reason for sampling these sites is to provide data required to fill geographic, spatial needs. This gives a better, more complete picture of how contaminants vary across the Maine coastline, and provides screening data that can be used in assessing interest on testing these sites again in the future. Testing sites with low contaminant levels, which can only be determined post-sampling, still provides valuable data on background contaminant levels and provides a context with which to compare more heavily contaminated sites.

"Temporal" sites are sites where there is an interest in obtaining data to assess contaminants through time. These sites will be sampled on an accelerated schedule, with sampling occurring as often as biennially. More frequent data collection will provide more closely spaced data through time, which may permit trend analysis when sufficient data are acquired. Relatively few temporal sites will be sampled to minimize costs associated with repeated, higher frequency sampling.

"Follow Up" sites are those where previous SWAT contaminant levels (or results from another program like Gulfwatch) at the site or nearby indicate that additional sampling and analysis are warranted. Repeat sampling may occur at the same location in an attempt to replicate earlier results, or sampling of additional nearby sites might be used to determine local, fine scale contaminant distribution. Follow Up sites may also occur in the Temporal or Spatial categories as well, based on their historical sampling and data needs at the site.

1.2.1 Blue Mussels

Blue mussel samples have been analyzed for toxics as part of the SWAT program since 1986, with over 80 distinct locations sampled in the past 25 years. Sampling stations are selected to meet one or more of three goals: 1) Provide spatial coverage of the Maine coast; 2) provide data to determine temporal patterns or trend; and 3) provide more focused results to assess problems documented by

earlier sampling and analyses. Early sampling efforts sometimes took a screening approach, included only metals analyses, or sometimes included only one replicate, which provides no information to assess variability of contaminants within site but does reduce costs.

Blue mussels were collected from three sites in 2010. Two of the three mussel sites had been sampled previously as part of the SWAT program, with Spring Point, South Portland, and Crockett Point, Rockland, having been sampled three years prior in 2007. Wadsworth Cove, Castine, had not been sampled previously as part of SWAT. Names and locations of blue mussel collection sites for 2010 are presented in Table 1.2.1.1. This table presents sites by name and includes municipality, latitude and longitude, and the site selection type: spatial, temporal, or follow up. A map of the blue mussel sampling locations is provided in Figure 1.2.1.1.

Methodology of field collection, morphometric measurement, and laboratory preparation of mussel samples has been provided in previous SWAT reports and in the Gulfwatch field manual (Sowles, 1997) and will be reviewed here to familiarize the reader with the general approaches used. SWAT mussel sampling is planned and conducted to control as much variability in data collected as possible. Variation in mussel shell size, seasonal timing of collections (subsequent to spawning), location within the intertidal zone, and site location were all minimized to reduce conflicting signals in the contaminant data.

Sampling occurred from mid-October to mid-November and sampling dates are included for specific sites in Table 1.2.1.1. In order to characterize the contaminants present in a general area at the sampling station, mussels were collected from four distinct areas (replicates) along the shoreline at each site whenever possible. Gauges were used to sort mussels by shell length in the field and mussels within a size range of 50-60 mm were selected for analysis. For metals analysis, a minimum of 20 mussels were selected from within the target size range from each of the four intra-site locations and placed in separate containers. For organics analysis, a minimum of 30 mussels were collected at each intra-site location. Replicates were washed in ambient sea water in a mesh or open bucket at the collection site to remove external debris and attached sediments. Mussel replicates were then transported to the laboratory in coolers (supplemented with ice packs in warmer weather). Mussels were not depurated prior to shucking to remove tissue for analysis.

TABLE 1.2.1.1: 2010 SWAT Blue Mussel Sites

Site Name	Municipality	Station Code	West Longitude	North Latitude	Date Sampled	Site Type[1]
Spring Point	S. Portland	CBSPSP	-70.2276	43.65053	10/14/2010	T
Crockett Point	Rockland	PBRKCP	-69.1065	44.10641	10/18/2010	F, T
Wadsworth Cove	Castine	PBCAWA	-68.10963	44.40367	11/16/2010	S

[1] S = Spatial, T = Temporal, F = Follow Up

Tissue sample processing was accomplished within 24 hours of field collections at all sites. At the laboratory, individual mussels were measured with calipers for length (anterior umbo to posterior growing edge) to the nearest 0.1 mm. Shell height, width (in mm), and soft tissue wet weight (nearest 0.1 g) were also measured and recorded for ten mussels per replicate. All soft tissue was removed and combined with the soft tissue from mussels within the same replicate. Total soft tissue wet weights per replicate were recorded. Tissue composites were immediately placed in pre-

cleaned glass jars and capped. Jars were pre-labeled and filled jars were stored at -5° C for up to 1 to 2 months until analysis.

Mussels tested for PAHs from three sites in 2010 were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Mussel tissue samples were analyzed for PAHs using modified EPA Method 8270/1625.

1.2.2 Softshell Clams

Softshell clams were slated for collection at two sites in 2010, but only one was successfully collected. Blue mussels were used to generate data at the site where no clams could be collected, Wadsworth Cove in Castine. Softshell clams were collected at Morse Cove, Penobscot/Castine, the only site sampled successfully for clams in 2010. Neither site had been sampled previously for blue mussels or softshell clams. In addition to the softshell clam site sampled in 2010 this report includes data from seven softshell clam sites sampled in 2004-05. This data is included to provide a broader look at softshell clam contaminant concentrations across the state and to present the Morse Cove data in a statewide context. The data from Morse Cove and the seven other sites sampled previously are presented in Table 1.2.2.1, and include municipality, and latitude and longitude. The location of the softshell clam sampling stations is presented in the previous mussel station map, Figure 1.2.1.1.

Methodology of field collection, morphometric measurement, and laboratory preparation of mussel samples has been provided in previous SWAT reports and in the Gulfwatch field manual (Sowles, 1997) and any departures that methodology in softshell clam sampling will be noted below.

Sampling typically occurred in mid-November and the specific sampling date is included in Table 1.2.2.1. In order to characterize the contaminants present in a general area at the sampling station, softshell clams were collected from four distinct areas (replicates) along the shoreline at each site whenever possible. Clams at or above the commercial legal length of 2 inches (50.8 mm) were dug from each intra-site location. For metals analysis, a minimum of ten clams were selected from within the target size range from each of the four intra-site locations and placed in separate containers. For organics analysis, a minimum of 20 clams were collected at each intra site location. Clams in these replicates were washed in ambient sea water in a mesh or open bucket at the collection site to remove external debris and attached sediments. Clam replicates were then transported to the laboratory in coolers (supplemented with ice packs in warmer weather). Clams were not depurated prior to shucking to remove tissue for analysis.

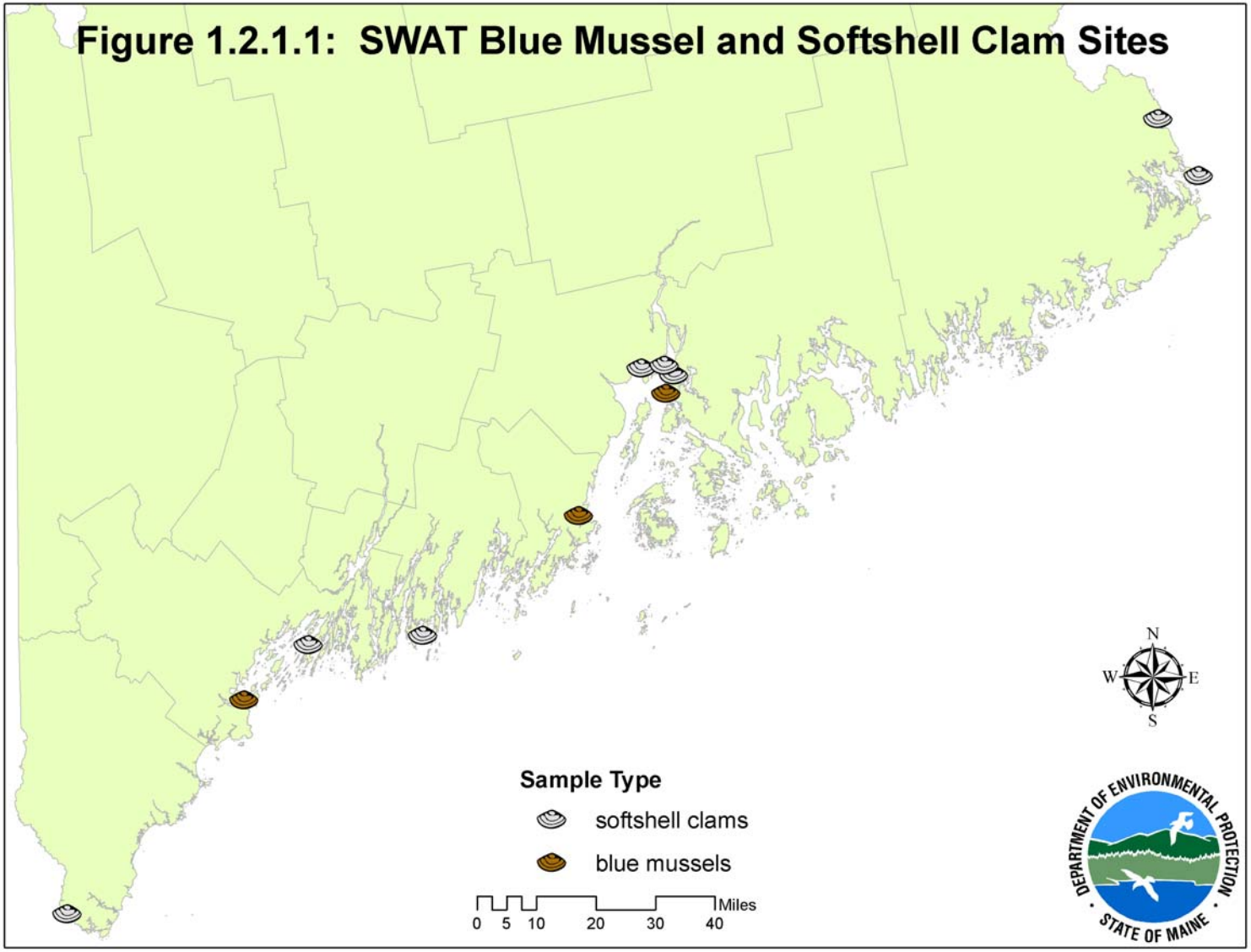


Figure 1.2.1.1: SWAT Blue Mussel and Softshell Clam Sites
N
W
E
S
Sample Type
softshell clams
blue mussels
0 5 10 20 30 40
Miles
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF MAINE

TABLE 1.2.2.1: SWAT Softshell Clam Sites: 2004-05, 2010

Site Name	Municipality	Station Code	West Longitude	North Latitude	Date Sampled	Site Type[1]
Mast Cove	Eliot	PQMCMC	-70.8048	43.1210	11/9/2004	S
Navy Pier	Harpswell	CBHWNP	-70.0136	43.7870	11/12/2004	S
Squirrel Island	Southport	MCBBSQ	-69.6290	43.8130	11/8/2004	S
Long Cove	Searsport	PBSTLC	-68.8938	44.4656	12/1/2005	S
Fort Point Cove	Stockton Springs	PBFPFP	-68.8150	44.4717	11/10/2005	S
Morse Cove	Penobscot/Castine	PBCAMC	-68.7835	44.4478	11/16/2010	S
Harris Cove	Eastport	PMHCHC	-66.9838	44.9171	11/9/2004	S
Mill Cove	Robbinston	PMSCMC	-67.1176	45.0580	11/29/2005	S

[1] S = Spatial, T = Temporal, F = Follow Up

Tissue sample processing was accomplished within 24 hours of field collections. At the laboratory, individual clams were measured with calipers for length (longest shell measurement perpendicular to a line extending from the umbo to the growing edge) to the nearest 0.1 mm. Shell height, width (in mm), and soft tissue wet weight (nearest 0.1 g) were also measured and recorded for ten clams. All soft tissue was removed and combined with the soft tissue from the ten clams within the same replicate. Total soft tissue wet weights per ten clam replicate were recorded. For organics analysis, 20 clams were composited into a replicate.

Tissue composite samples for metals analyses included ten clams per composite sample or replicate, with four replicates collected per sampling station. Tissue composite samples for organics analyses included 20 clams per composite sample or replicate, with four replicates collected per sampling station. Tissue composites were immediately placed in pre-cleaned glass jars and capped. Jars were pre-labeled and filled jars were stored at -5° C for up to one to two months until analyses could be completed. Softshell clams tested for PAHs in 2010 were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Clam tissue analyzed in 2004-05 was analyzed by Pace Analytical, Minneapolis, MN. Clam tissue samples were analyzed for PAHs using modified EPA Method 8270/1625.

1.2.3 American Lobster

The NCCA uses a probabilistic sampling design that selects stations in a random fashion via a computer program. Thus, the stations are not selected due to proximity to pollution sources or known features of any type. Of 43 stations selected to represent the Maine coast in 2010 as part of NCCA, Maine DEP attempted to obtain lobster samples from as many stations as possible; however, many of the 43 stations were not suitable for lobster collection, either lacking suitable habitat, being too shallow or too far offshore, or exhibiting salinity too low for lobster habitation. Lobsters were collected successfully at 21 of the 43 stations in the design.

Sampling occurred in late summer/early autumn before lobsters migrated to deeper, offshore waters. Up to seven lobsters were purchased directly from lobstermen, who agreed to provide lobsters from within the vicinity of the sampling station after the location was provided via use of a map or from station coordinates. Seven lobsters per station were collected to provide adequate tissue (specifically the mass-limited hepatopancreas tissue) for achieving laboratory detection limits. Smaller, legal lobsters that just recruited to the fishery (approximately 1 to 1.25 lbs. or 0.45 to

0.57kg) were selected for inclusion in the composite samples at each station. Since smaller lobsters are thought to have a reduced home range of perhaps less than 1-2 km, using these lobsters in late summer would limit the integration of contaminants to a more localized area within that home range. Lobsters were individually double wrapped in aluminum foil, labeled with station ID and individual lobster number, placed in a polyethylene bag, and frozen live at -20°C.

Lobsters were dissected by DEP staff into hepatopancreas and muscle tissues. Whenever possible, lobster samples were composites of seven individual animals, though one sample contained six lobsters. EPA, as part of the NCCA program and through a contracted laboratory, analyzed lobster hepatopancreas and muscle tissues for mercury, heavy metals, non-alkylated PAHs, pesticides, and PCBs. As part of the SWAT program, DEP provided additional analysis of lobster hepatopancreas and muscle tissues for additional PAHs including alkylated PAHs, dioxins, furans, and coplanar PCBs. This report includes data analysis for DEP SWAT-funded suites of the analytes listed above, from 19 of 21 stations collected along the Maine coast in 2010. Insufficient SWAT funds resulted in lobsters from two sites not being analyzed.

Table 1.2.3.1 includes coordinates and sampling dates for the 19 SWAT-analyzed lobster stations. Figures 1.2.3.1 (western Maine), 1.2.3.2 (mid-coast Maine), and 1.2.3.3 (Downeast Maine) show the location of 19 SWAT-analyzed lobster collection stations. Lobster tissues tested for PAHs in 2010 were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia, using modified EPA Method 8270/1625. Additional data stemming from the EPA analysis for mercury, heavy metals, non-alkylated PAHs, pesticides, and PCBs were not available as the lab work was not completed by the time of this report. These data will be acquired by DEP for future reference and for inclusion in the DEP database.

Table 1.2.3.1: 2010 SWAT Lobster Stations

Location	Station Code	West Longitude	North Latitude	Date Sampled
Luckse Sound, Casco Bay	NCCA10-1017	70.20406	43.62466	11/16/2010
Cousins Island Sound, Casco Bay	NCCA10-1021	70.16395	43.71207	11/16/2010
Broad Sound, Casco Bay	NCCA10-1020	70.07681	43.69880	11/2/2010
W. Pond Is., Casco Bay	NCCA10-1016	69.98100	43.73903	10/16/2010
E. Pond Is., Casco Bay	NCCA10-1018	69.95756	43.73462	11/2/2010
Pemaquid Point, Muscongus Bay	NCCA10-1067	69.49613	43.83977	11/9/2010
Muscongus Sound	NCCA10-1063	69.44983	43.92972	11/9/2010
Belfast Bay	NCCA10-1054	68.91670	44.41312	10/7/2010
W. Isle Au Haut, IAH Bay	NCCA10-1057	68.66315	44.05863	10/4/2010
Merchant Row	NCCA10-2050	68.63407	44.11128	9/23/2010
Eggemoggin Reach	NCCA10-1069	68.65338	44.26565	10/22/2010
W. Swans Is., Jericho Bay	NCCA10-1084	68.51483	44.13697	10/5/2010
Flye Is., Blue Hill Bay	NCCA10-1065	68.50157	44.25105	10/14/2010
S. Bartlett Is., Blue Hill Bay	NCCA10-1082	68.43315	44.31983	9/20/2010
Narraguagus Bay	NCCA10-1072	67.84495	44.49680	9/24/2010
Pleasant Bay	NCCA10-1068	67.74645	44.49827	10/20/2010
W. Great Wass Is., Western Bay	NCCA10-1083	67.62112	44.47708	9/29/2010
Machias Bay	NCCA10-1064	67.34738	44.61583	9/21/2010
Eastport, Cobscook Bay	NCCA10-1060	66.97215	44.89848	11/16/2010

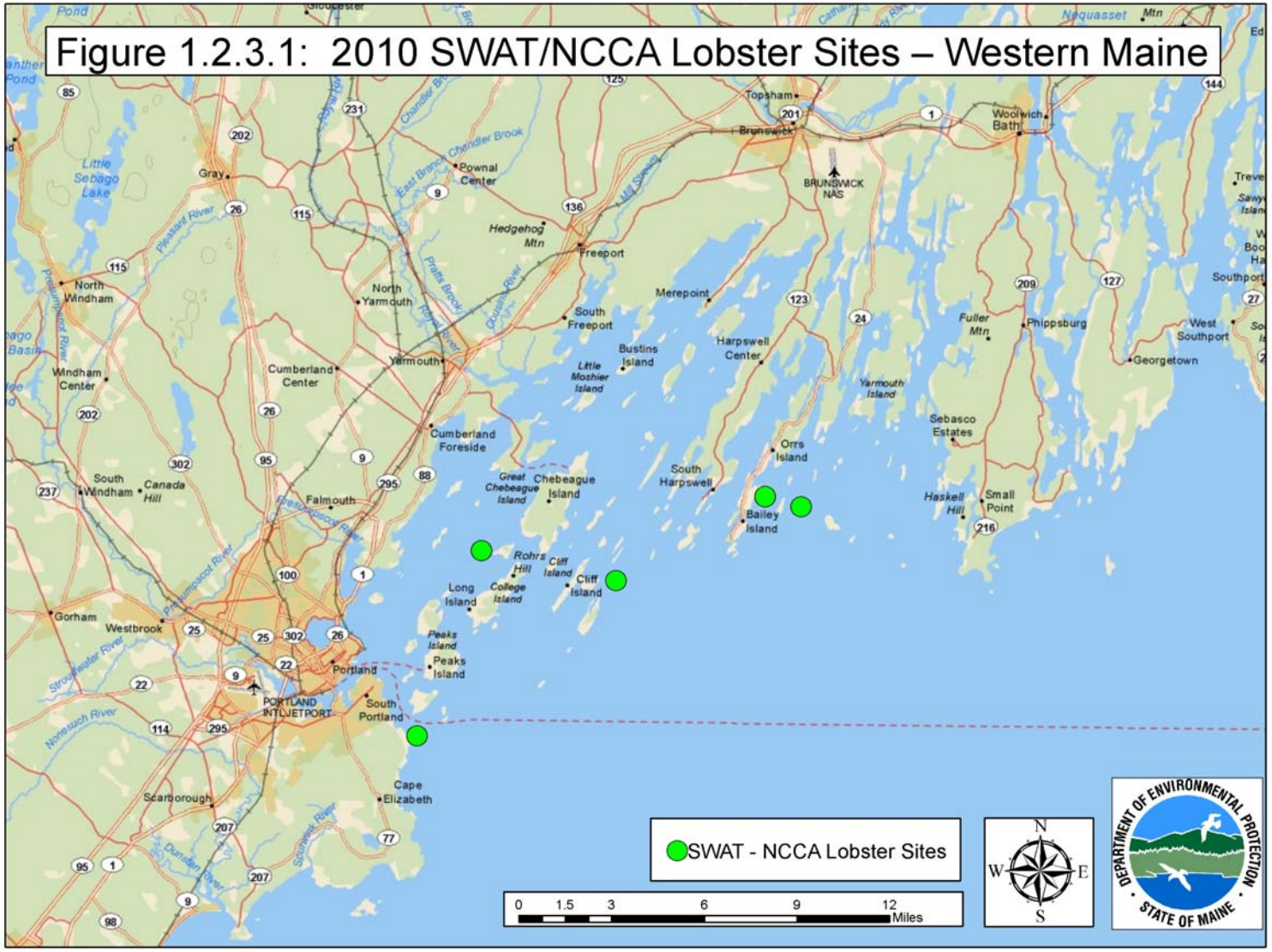


Figure 1.2.3.1: 2010 SWAT/NCCA Lobster Sites – Western Maine
SWAT - NCCA Lobster Sites
0 1.5 3 6 9 12 Miles
N
W
E
S
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF MAINE
Topsham
Brunswick
Woolwich
Bath
BRUNSWICK NAS
Gray
Pownal Center
Hedgehog Mtn
Freeport
North Yarmouth
Merepoint
South Freeport
Bustins Island
Harpswell Center
Little Moshier Island
Yarmouth
Cumberland Center
Cumberland Foreside
Yarmouth Island
Fuller Mtn
Phippsburg
West Southport
Georgetown
Sebasco Estates
Orrs Island
South Harpswell
Great Chebeague Island
Chebeague Island
Bailey Island
Haskell Hill
Small Point
Falmouth
Rohrs Hill
Cliff Island
Long Island
College Island
Peaks Island
Gorham
Westbrook
Portland
PORTLAND INTLJETPORT
South Portland
Cape Elizabeth
Scarborough
North Windham
Windham Center
South Windham
Canada Hill
Little Sebago Lake
Nequasset Mtn

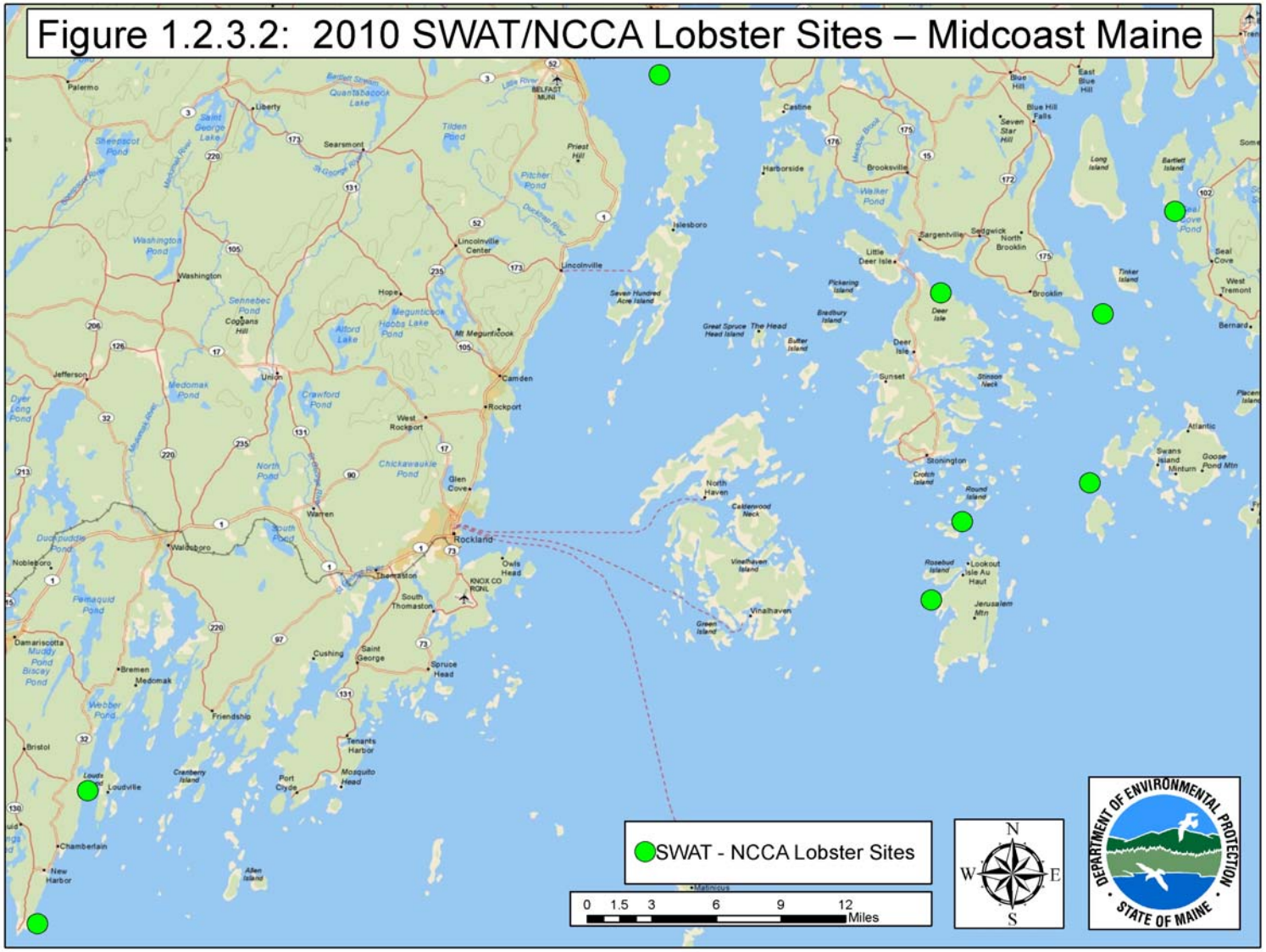


Figure 1.2.3.2: 2010 SWAT/NCCA Lobster Sites – Midcoast Maine
SWAT - NCCA Lobster Sites
0 1.5 3 6 9 12 Miles
N
W
E
S
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF MAINE

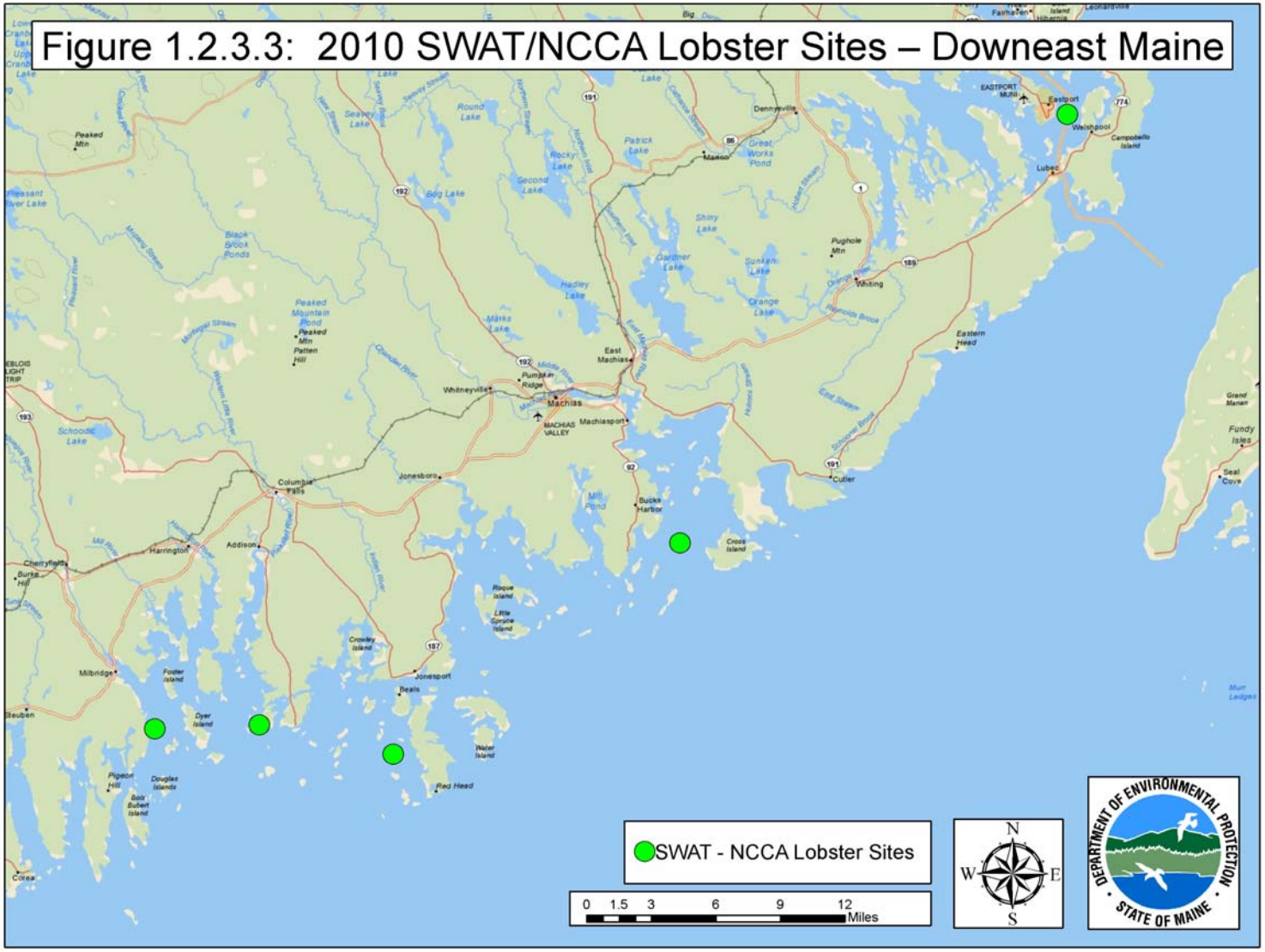


Figure 1.2.3.3: 2010 SWAT/NCCA Lobster Sites – Downeast Maine
SWAT - NCCA Lobster Sites
0 1.5 3 6 9 12
Miles
N
W
E
S
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF MAINE

1.3 RESULTS AND DISCUSSION

1.3.1 Metals

1.3.1.1 Blue Mussels

Mussel tissue samples collected in 2010 were analyzed by Battelle Marine Sciences Laboratory, Sequim, WA. The samples were analyzed for 11 metals: Silver (Ag), aluminum (Al), arsenic (Ar), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), lead (Pb), mercury (Hg), nickel (Ni), and zinc (Zn).

Results were compared to national (NOAA National Status & Trends Mussel Watch (NS&T), see Kimbrough, 2008) and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) blue mussel monitoring program data to place Maine SWAT data in a national and regional context. From an environmental monitoring perspective, the concentration of an analyte in SWAT mussel tissue was considered elevated when that concentration exceeded the national NS&T 85th percentile. This approach is consistent with the Gulfwatch program (LeBlanc, 2009).

1.3.1.1.1 Silver (Ag)

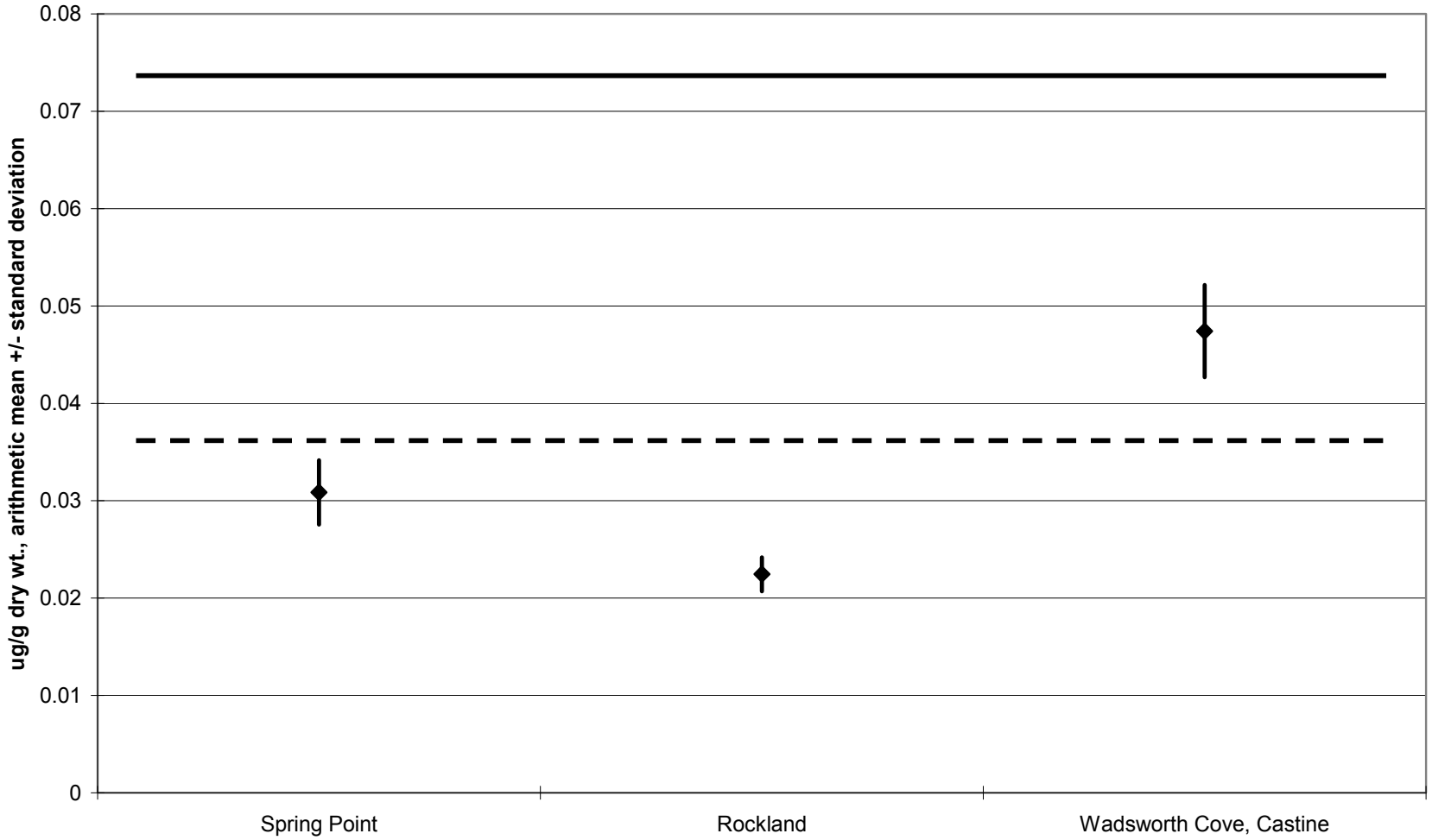
Silver was detected in all three sample locations visited in 2010. Silver detected in mussels ranged from a low mean concentration of 0.022 ug/g dry wt. at Crockett Point, Rockland, to a high mean concentration of 0.047 ug/g dry wt. at Wadsworth Cove, Castine (Figure 1.3.1.1.1.1). Silver mean concentrations in 2010 SWAT mussels were also compared to the Gulfwatch median and 85th percentile concentrations. The mean concentration at Wadsworth Cove, Castine, exceeded the Gulfwatch median (0.037 ug/g dry wt.). None of the SWAT mean concentrations approached or exceeded the Gulfwatch 85th percentile (0.073 ug/g dry wt., Figure 1.3.1.1.1.1).

Figure 1.3.1.1.1.2 compares the silver concentrations in 2010 SWAT blue mussel tissue to the NS&T national median and national 85th percentile. Silver mean concentrations at all three SWAT sites fell below the NS&T national median and NS&T 85th percentile, hence no sites were considered elevated for silver.

Higher silver concentrations in water and sediments coincide with municipal sewage discharge (Sanudo-Wilhelmy and Flegal, 1992; Buchholtz ten Brink et al., 1997). Silver concentrations in Maine mussels appear to be relatively low. The highest Gulfwatch values, which came from sites in Neponset River and Sandwich, Massachusetts, exceeded the NS&T median but fell short of the NS&T 85th percentile. Increasing use of silver, including nanosilver, in products like paints, caulking, and clothing makes monitoring silver of interest at present and in the future.

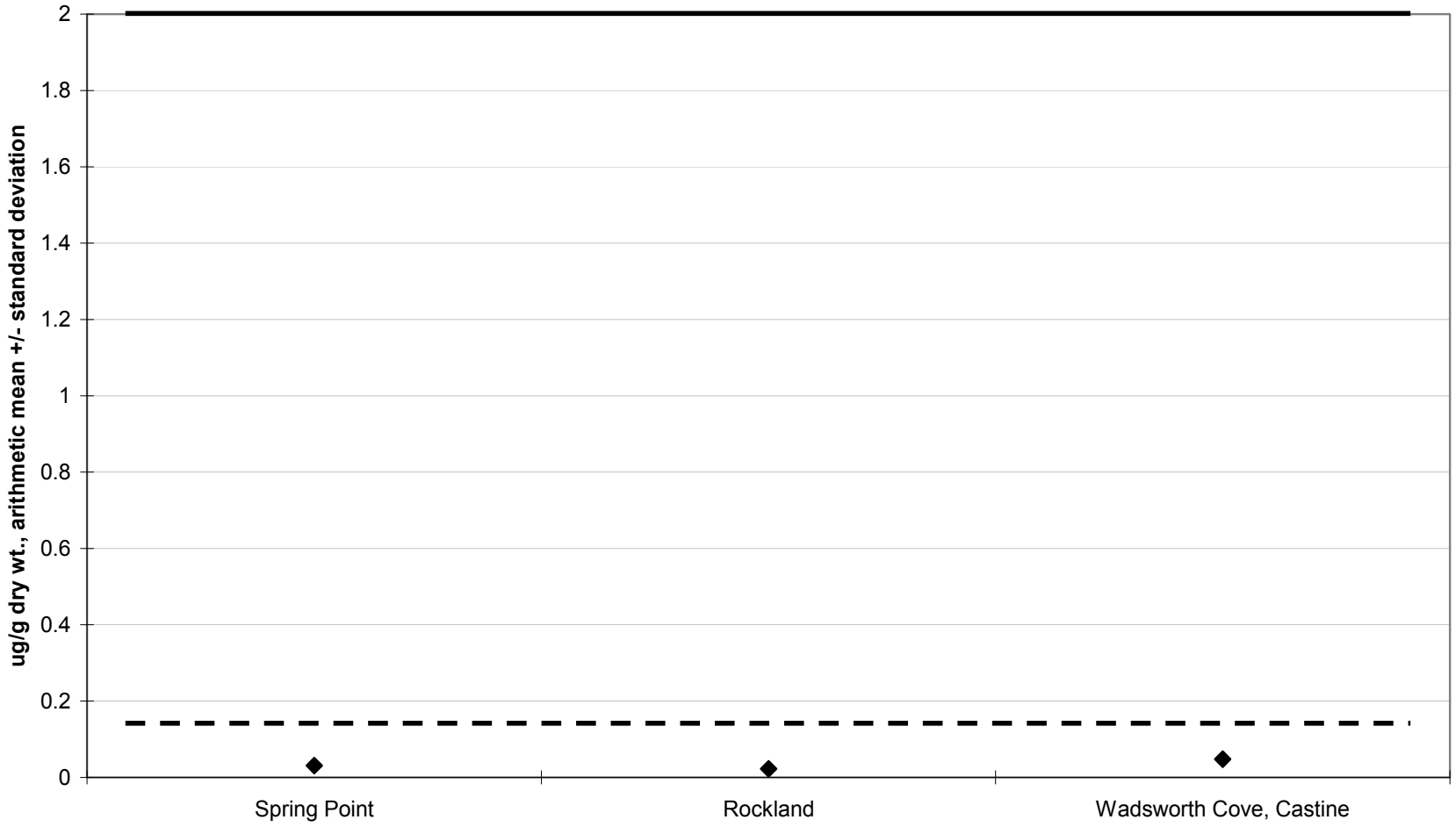
The Maine Center for Disease Control, Bureau of Health (MCDC) silver non-cancer fish tissue action level (FTAL) is 11 ug/g wet wt. (ppm) for non-commercially caught fish. The highest 2010 SWAT blue mussel tissue mean silver concentration, when expressed on a wet weight basis, is 0.009 ug/g wet wt. at Wadsworth Cove, Castine. This concentration is three orders of magnitude below the 11 ug/g wet wt. FTAL.

Figure 1.3.1.1.1.1: Silver in 2010 SWAT Blue Mussels



Dashed line = 2008 Gulfwatch Median; Solid line = 2008 Gulfwatch 85th Percentile.

Figure 1.3.1.1.1.2: Silver in 2010 SWAT Blue Mussels



Dashed line = 2008 National Status and Trends Median; Solid line = 2008 National Status and Trends 85th Percentile.

1.3.1.1.2 Arsenic (As)

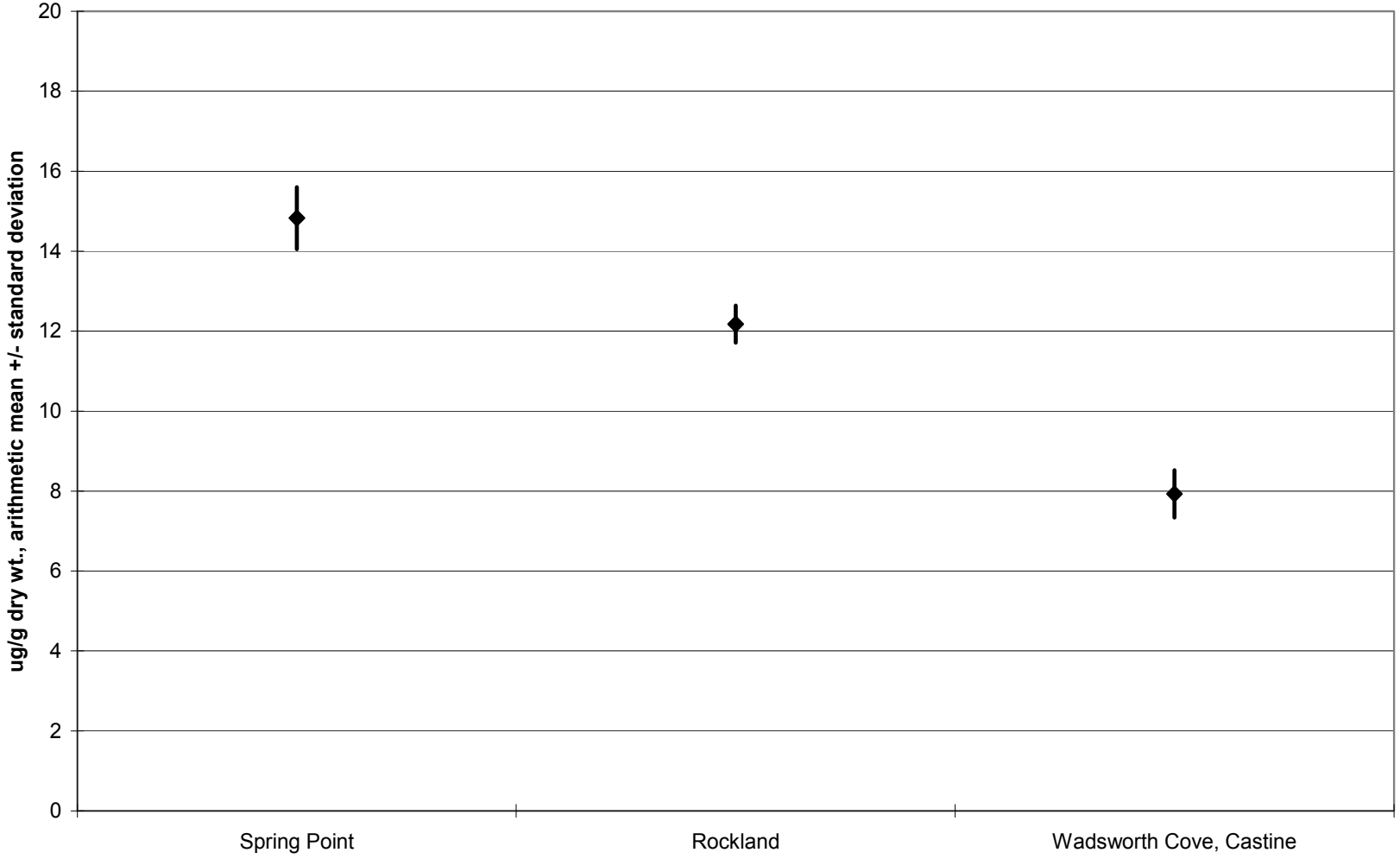
Arsenic was detected in all three sample locations visited in 2010. Arsenic levels detected in mussels ranged from a low mean concentration of 7.93 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 14.83 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.2.1). While Gulfwatch does not monitor arsenic concentrations, they are tracked regionally and nationally by NS&T. In blue mussels, NS&T considers 5-11 parts per million dry wt. (directly comparable to SWAT ug/g data) to be in the lowest of three ranges of arsenic concentration (Kimbrough, 2008). Spring Point, South Portland, and Crockett Point, Rockland, show levels above 11 mg/kg dry wt., which places those sites in the lower half of the NS&T mid range (12-22 PPM or ug/g dry wt.) for arsenic. The remaining site, Wadsworth Cove, Castine, falls in the lowest range delineated by NS&T, below 11 ug/g (ppm) dry wt.

Nationally, the primary source for elevated levels of arsenic is crustal rock. Other than natural sources, industrial pollution can contribute arsenic to the environment from preserved wood, semiconductors, pesticides, defoliants, pigments, antifouling paints, and veterinary medicines. Atmospheric sources include smelting, fossil fuel combustion, power generation, and pesticide application (Kimbrough, 2008).

For non-commercially caught finfish, MCDC reports a cancer FTAL of 0.014 ppm and a non-cancer FTAL of 0.6 ppm, both for inorganic arsenic (the most toxic form). Most fish tissue data and the SWAT blue mussel tissue data are analyzed for total arsenic, not inorganic arsenic. MCDC uses FDA's 1993 assumption that 10% of total arsenic in finfish is inorganic arsenic. Using this assumption, SWAT blue mussel data were transformed to inorganic arsenic by dividing wet weight concentrations by a factor of 10. Therefore, 2010 SWAT blue mussel inorganic arsenic concentrations are estimated to range from 0.14 ug/g wet wt. to 0.21 ug/g wet wt. All three sites exceeded the MCDC cancer FTAL of 0.014 ug/g wet wt. (ppm).

Comparing recent data from all 42 mussel sites sampled from 2007-09, inorganic arsenic concentrations in SWAT blue mussel tissue ranged from a low of 0.11 ug/g wet wt. (Bar Harbor, 2007) to a high of 0.23 ug/g wet wt. (Scarborough R., 2008). All 42 SWAT sites sampled from 2007-09 had blue mussel tissue inorganic arsenic concentrations exceeding the MCDC cancer action level of 0.014 ug/g wet wt. (ppm). None of the three sites sampled in 2010 exceeded the MCDC non-cancer action level of 0.6 ug/g wet wt. (ppm) for inorganic arsenic. Similarly, none of the 42 mussel stations sampled from 2007-09 exceeded the MCDC non-cancer FTAL. The MCDC non-commercially caught finfish FTALs applied here assume an 8 oz. meal eaten by the consumer on a weekly basis. Maine SWAT data indicates that this 8 oz. meal size would translate to approximately 45-50 mussels per meal.

Figure 1.3.1.1.2.1: Arsenic in 2010 SWAT Blue Mussels



1.3.1.1.3 Cadmium (Cd)

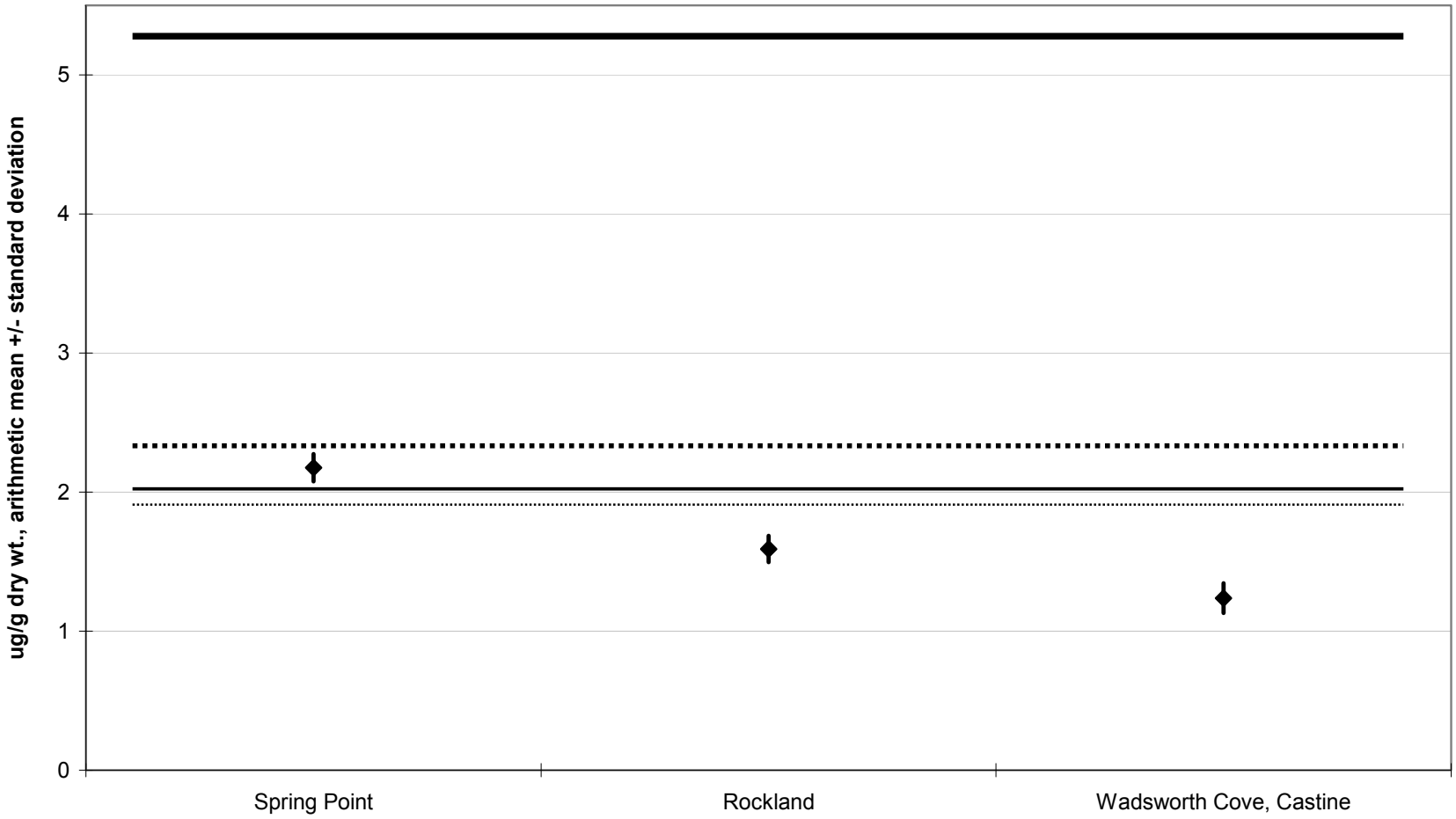
Cadmium was detected in all three sample locations visited in 2010. Cadmium levels detected in mussels ranged from a low mean concentration of 1.24 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 2.18 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.3.1). All three sites had concentrations comparable to the 2008 Gulfwatch median, with two falling below that median. Only Spring Point, South Portland, exceeded the Gulfwatch median. No sites exceeded the Gulfwatch 85th percentile (Figure 1.3.1.1.3.1).

Cadmium concentrations at one site, Spring Point, South Portland, exceeded the NS&T national median (Figure 1.3.1.1.3.1) (Kimbrough, 2008). None of the three SWAT sites sampled in 2010 had cadmium concentrations approaching or exceeding the NS&T national 85th percentile.

Cadmium originates from crustal elements as rocks weather and is transported seaward by rivers, which account for approximately half of worldwide cadmium sources. Cadmium is also released naturally through forest fires and volcanic activity, with anthropogenic sources including manufacturing, fossil fuel combustion, and agriculture. Industrial sources include manufacture of batteries, plating, stabilizers, and nuclear power (Kimbrough, 2008).

From a human health perspective, the MCDC non-cancer FTAL for cadmium in non-commercially caught finfish is 2.2 ug/g wet wt. The FDA action level for clams, oysters, and mussels is 4 ppm wet wt. (Kimbrough, 2008). The highest scoring 2010 SWAT site, Spring Point, South Portland, had a mean cadmium concentration of 0.27 ug/g wet wt., which was well below the MCDC and FDA action levels (12% of the more conservative MCDC non-cancer FTAL).

Figure 1.3.1.1.3.1: Cadmium in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

1.3.1.1.4 Chromium (Cr)

Chromium was detected at all three sites sampled in 2010. Chromium levels detected in mussel tissue ranged from a low mean concentration of 2.62 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 3.49 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.4.1). All three SWAT site concentrations exceeded the Gulfwatch median and the Gulfwatch 85th percentile (Figure 1.3.1.1.4.1).

Figure 1.3.1.1.4.1 also depicts 2010 SWAT mussel chromium concentrations compared to the NS&T Mussel Watch national median and 85th percentile concentrations. All three SWAT sites fell above the NS&T national median, while one site, Spring Point, South Portland, exceeded the NS&T national 85th percentile and was considered elevated for chromium (Kimbrough, 2008).

Chromium is used extensively in tanning leather and was discharged with untreated tannery effluent during the last two centuries. Chromium persists in the marine environment in sediments near anthropogenic sources.

From a human health perspective, the MCDC FTALs (7 ug/g cancer action level and 11 ug/g non-cancer action level) for chromium are based on chromium VI, and are not directly comparable to SWAT results, which are for total chromium.

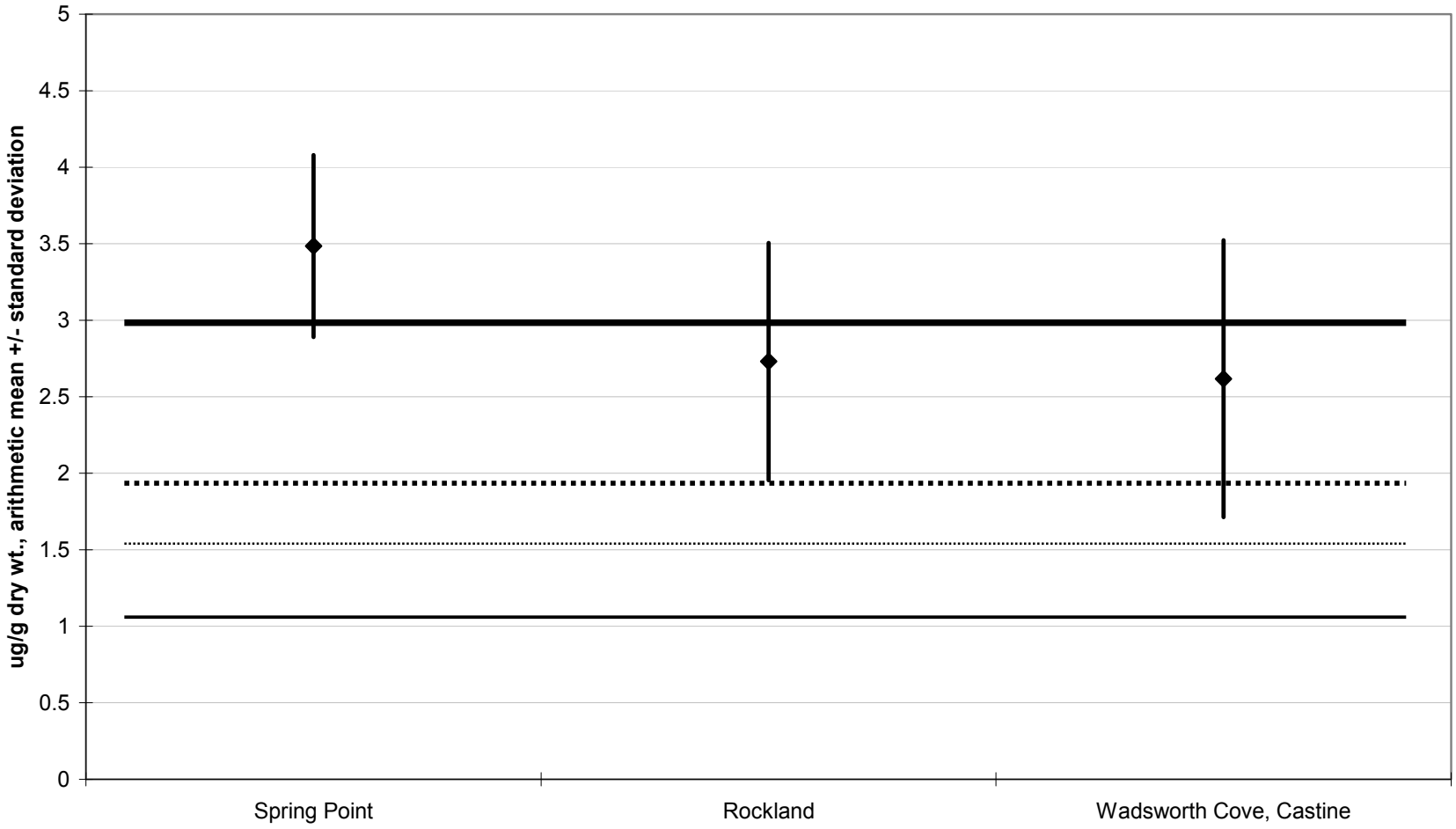
1.3.1.1.5 Copper (Cu)

Copper was detected in samples taken at all three SWAT mussel sites visited in 2010. Copper levels detected in mussels ranged from a low mean concentration of 5.55 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 9.21 ug/g dry wt. at Crockett Point, Rockland (Figure 1.3.1.1.5.1). Copper concentrations exceeded the Gulfwatch median and Gulfwatch 85th percentile at two sites, Spring Point, South Portland, and Crockett Point, Rockland (LeBlanc, 2009). SWAT copper concentrations at all three sites sampled in 2010 fell below the NS&T national median, as shown in Figure 1.3.1.1.5.2 (Kimbrough, 2008).

Copper occurs naturally in the environment and is ubiquitous, including in the marine environment. Copper, in trace amounts, is considered to be an important nutrient for plant and animal growth. Heightened copper concentrations can occur due to anthropogenic sources, including mining, agriculture, sewage sludge, antifouling paint, fungicides, wood preservatives, and brake pads. With the reduction of the use of chromated copper arsenate (CCA) wood preservative due to its phase out by EPA, newer wood preservatives utilizing even higher levels of copper have come into use, including quaternary copper. Similarly, tributyltin marine bottom paint use was reduced in the 1980s, resulting in increased use of copper based antifouling paints and asbestos removal from brake pads has been offset by increased copper usage in brake pads (Kimbrough, 2008).

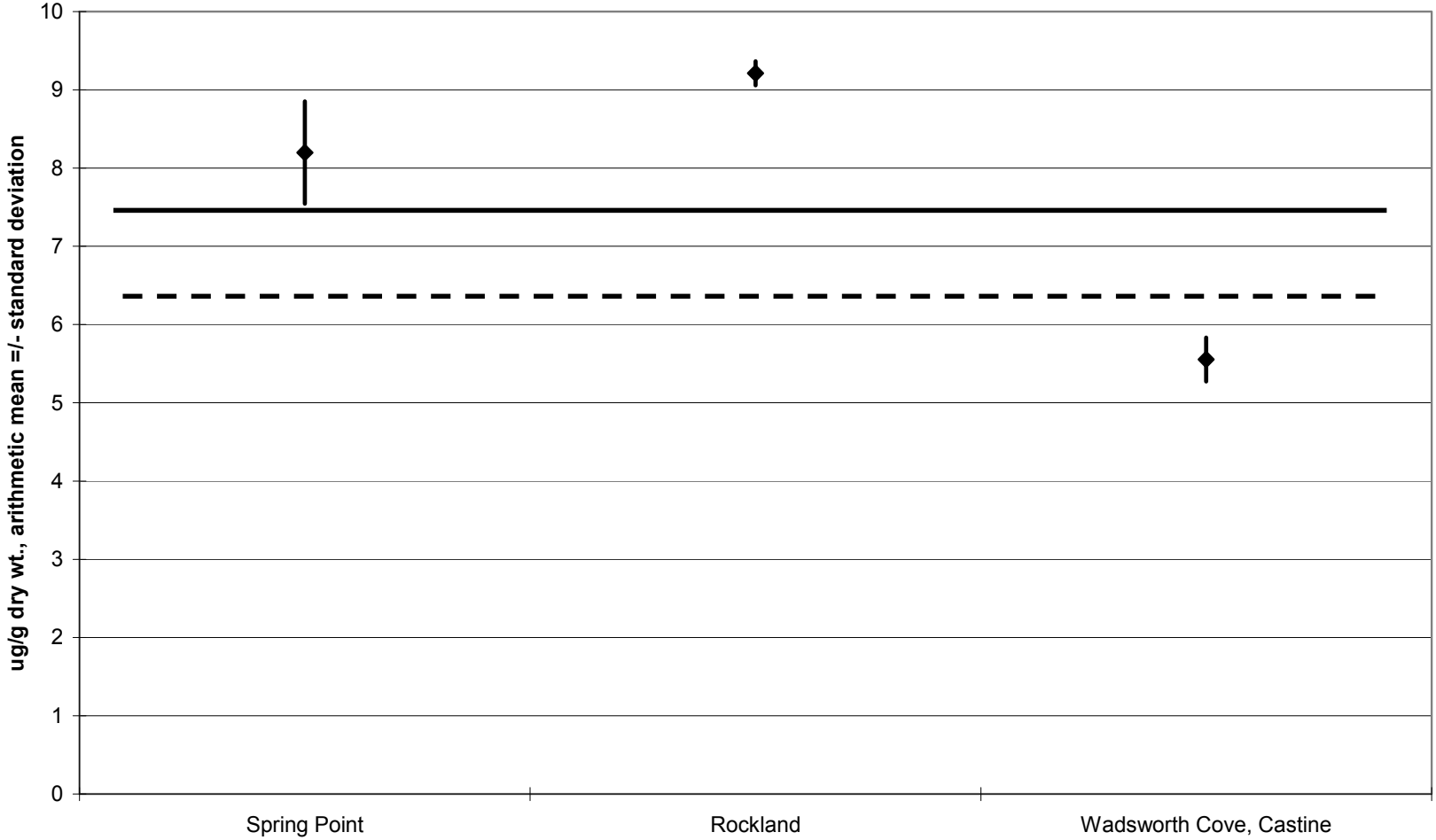
From a human health perspective, copper is not highly toxic to humans, though there are some chronic effects. There is no recommended FDA safety level for human consumption for copper in fish or shellfish (Kimbrough, 2008), nor does MCDC report a FTAL for copper in non-commercially caught sportfish.

Figure 1.3.1.1.4.1: Chromium in 2010 SWAT Blue Mussels



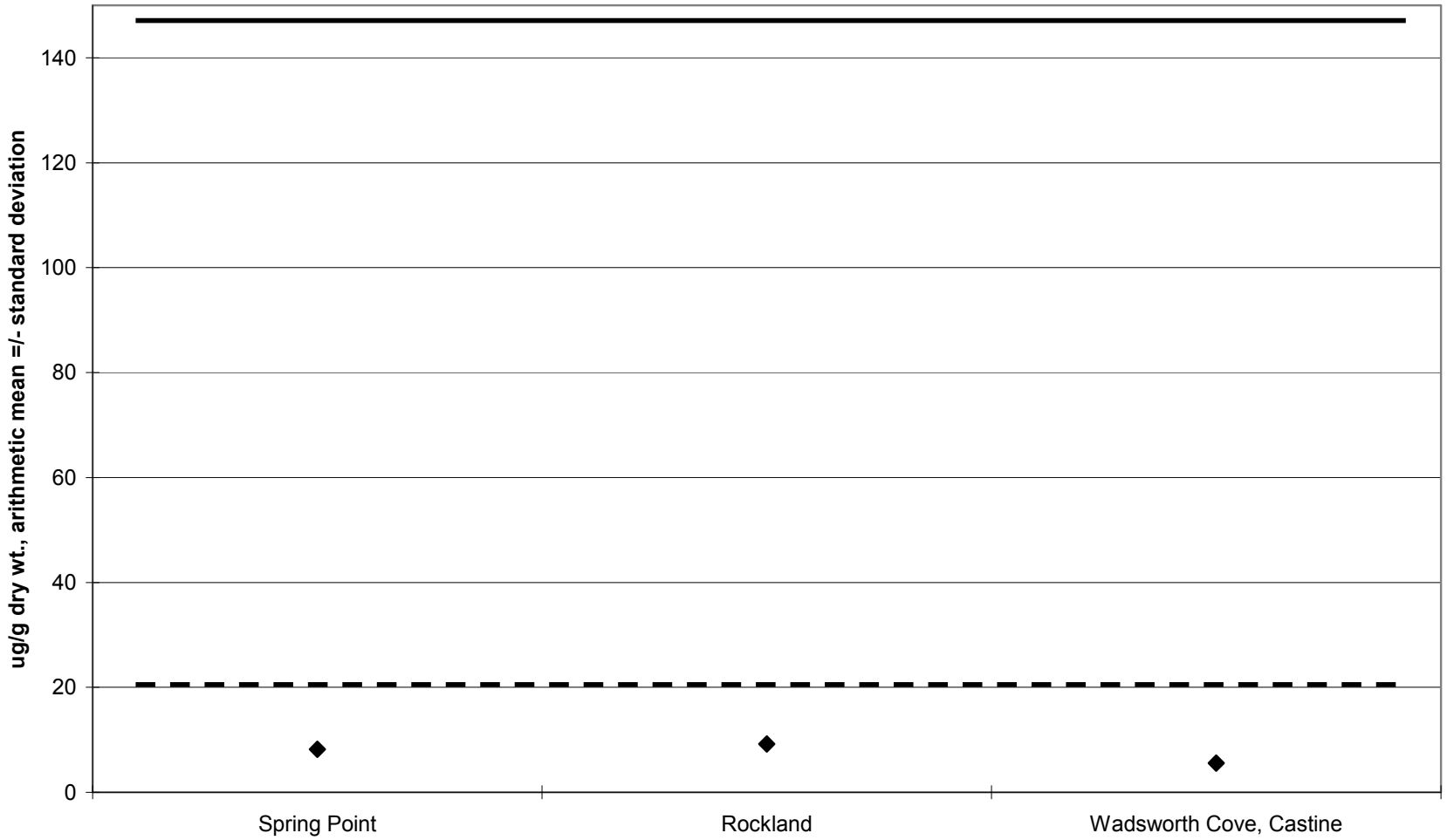
Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

Figure 1.3.1.1.5.1: Copper in 2010 SWAT Blue Mussels



Dashed line = 2008 Gulfwatch Median; Solid line = Gulfwatch 85th Percentile.

Figure 1.3.1.1.5.2: Copper in 2010 SWAT Blue Mussels



Dashed line = 2008 National Status and Trends Median; Solid line = National Status and Trends 85th Percentile.

1.3.1.1.6 Iron (Fe) and Aluminum (Al)

Iron was detected in all three SWAT blue mussel sites sampled in 2010. Iron concentrations detected in mussels ranged from a low mean concentration of 514 ug/g dry wt. at Crockett Point, Rockland, to a high mean concentration of 750 ug/g dry wt. at Spring Point, South Portland as shown in Figure 1.3.1.1.6.1. Iron concentrations at all three sites exceeded the Gulfwatch median, while only Spring Point, South Portland, exceeded the Gulfwatch 85th percentile. Figure 1.3.1.1.6.1 also shows a comparison of SWAT mean iron concentrations to NS&T national median and 85th percentile iron concentrations. Iron concentrations at all three sites exceeded the NS&T national median, though none of the three sites exceeded the NS&T national 85th percentile.

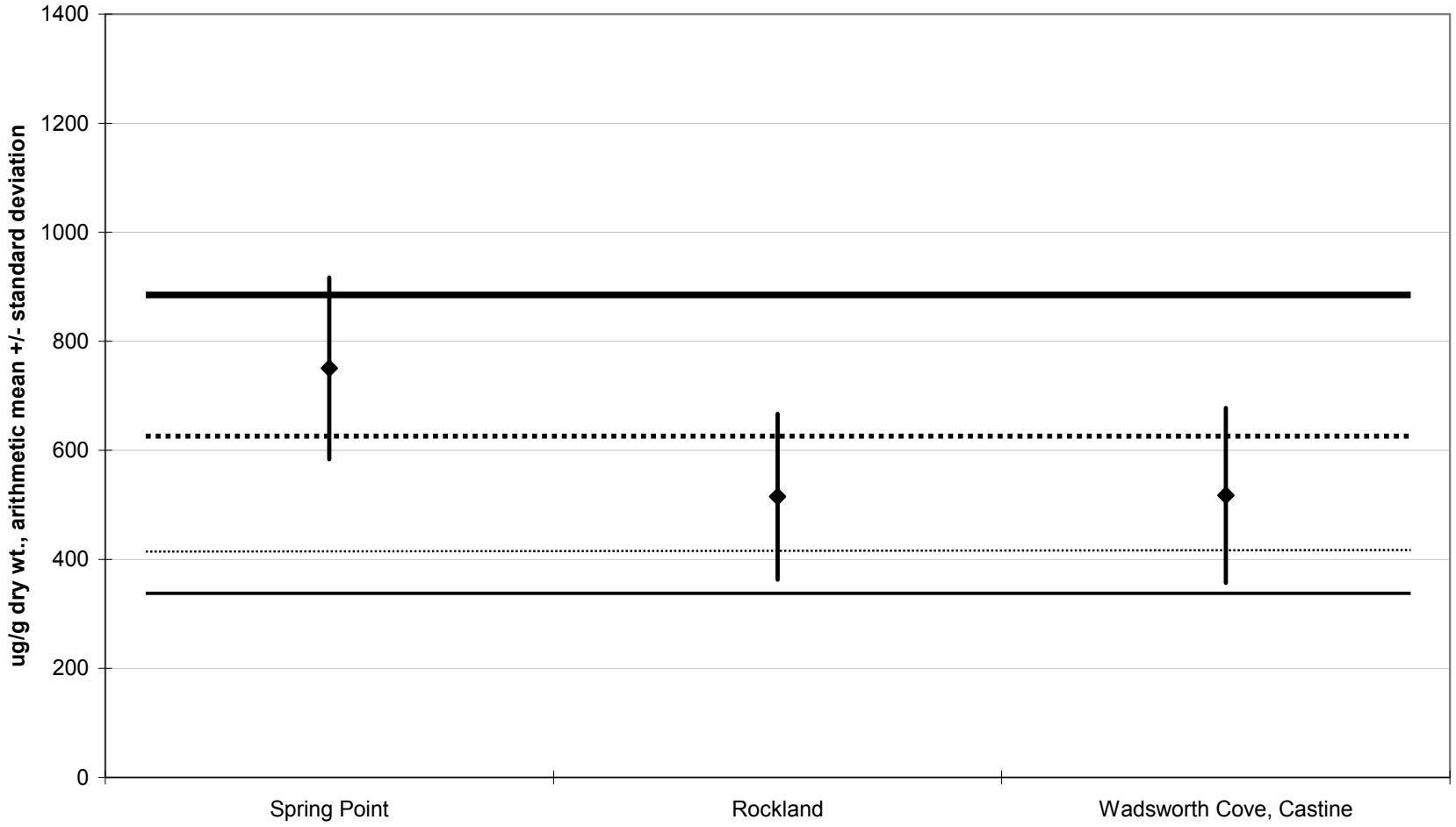
Aluminum concentrations detected in mussels ranged from a low mean concentration of 308 ug/g dry wt. at Crockett Point, Rockland, to a high mean concentration of 539 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.6.2). Aluminum concentrations at all three sites exceeded the Gulfwatch median concentration, while only Spring Point, South Portland, exceeded the Gulfwatch 85th percentile concentration (LeBlanc, 2009). Figure 1.3.1.1.6.2 also shows a comparison of SWAT mean aluminum concentrations to NS&T national median and 85th percentile iron concentrations. Mean aluminum concentrations at three sites exceeded the NS&T national median, while only Spring Point, South Portland, exceeded the NS&T national 85th percentile.

Spring Point, South Portland, appeared to have relatively high levels of iron and aluminum, even compared to Gulfwatch results from 2008, the most recent year available (LeBlanc, 2009). High iron and aluminum concentrations are usually associated with the intake of high levels of suspended sediments by mussels at sampled sites, with both metals being common components of crustal rocks and coastal sediments. This correlation has also been shown with gut depuration experiments conducted as part of Gulfwatch monitoring in previous years, indicating that some of the iron and aluminum is associated with gut contents and not bioaccumulated loads. Sediment loading in the gut therefore may have some effect on the Spring Point iron and aluminum tissue concentrations.

Monitoring for iron and aluminum provides an important reference to gauge sediment intake by mussels, allowing iron and aluminum levels to be referenced if other more toxic metals or contaminants are detected in mussel tissue. If iron and aluminum concentrations are high, it is likely that a fraction of the contaminant load can be traced back to high sediment intake with some contamination coming from sediment in mussel gut contents, rather than bioaccumulated contaminants from mussel tissue.

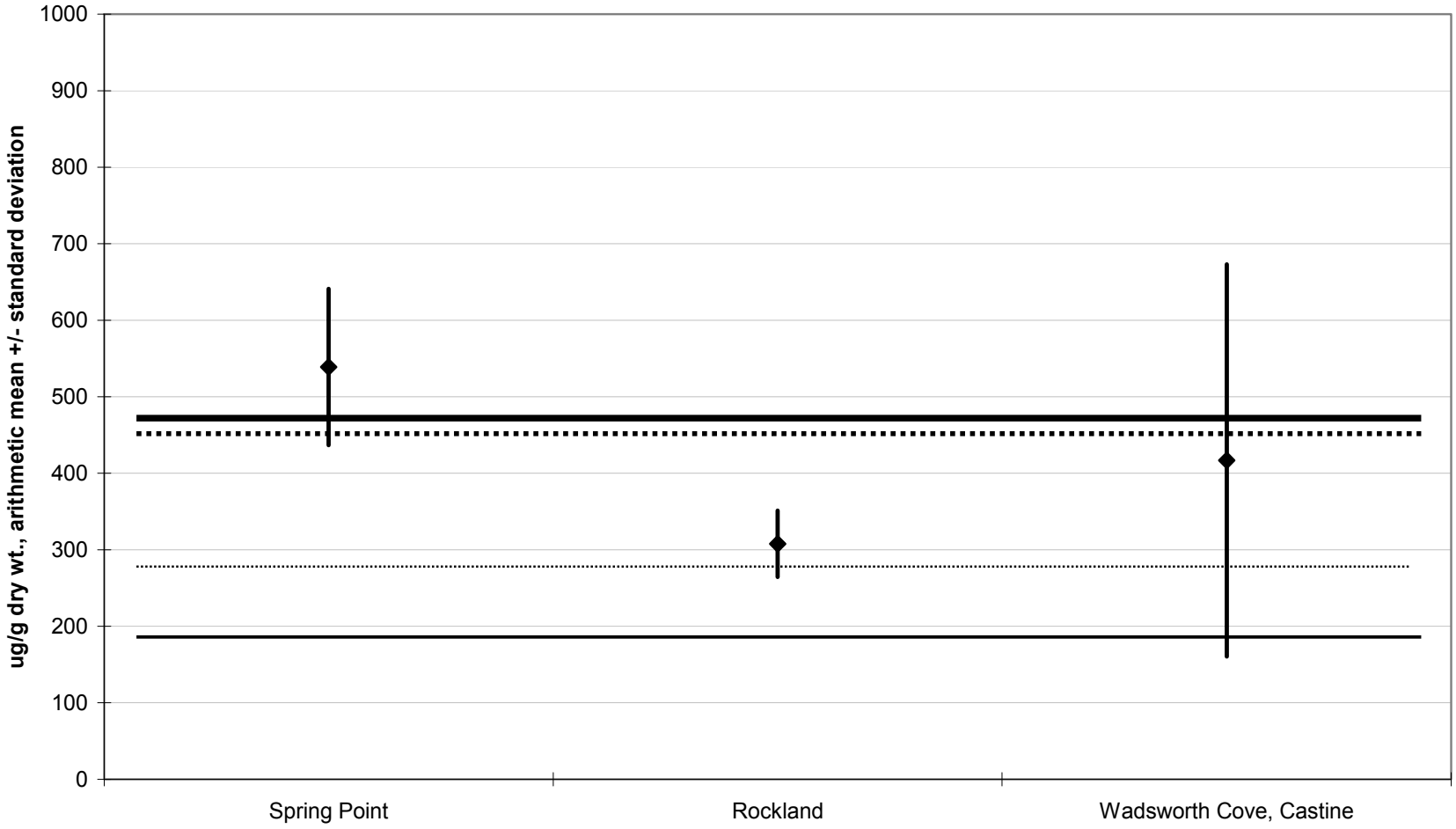
From a human health perspective, MCDC does not report FTALs for iron and aluminum.

Figure 1.3.1.1.6.1: Iron in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

Figure 1.3.1.1.6.2: Aluminum in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

1.3.1.1.7 Nickel (Ni)

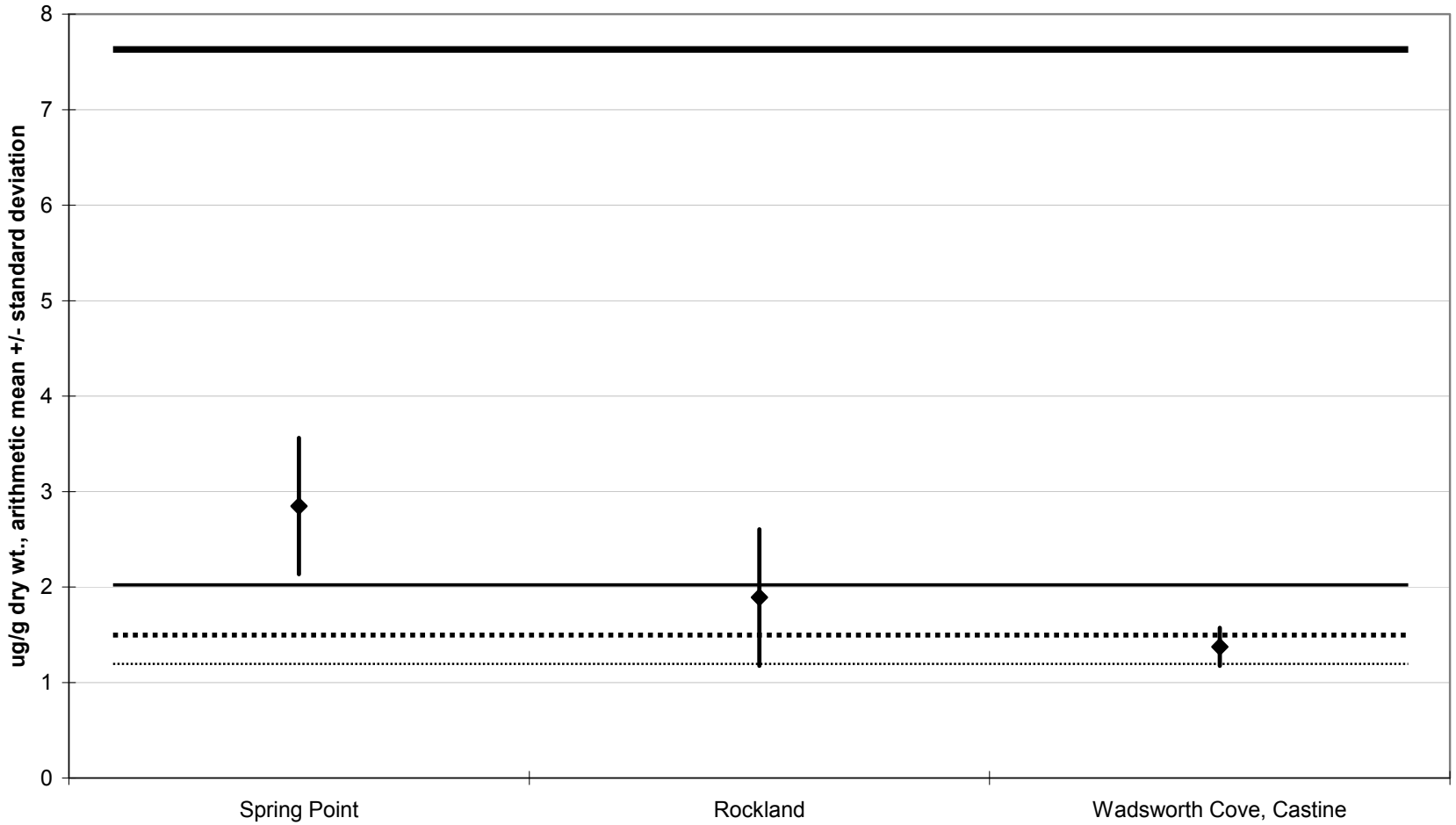
Nickel was detected at all three SWAT blue mussel sites visited in 2010. Nickel levels detected in mussels ranged from a low mean concentration of 1.37 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 2.85 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.7.1). Maine concentrations were all higher than the Gulfwatch median, with Spring Point, South Portland, and Crockett Point, Rockland, falling above the Gulfwatch 85th percentile.

Figure 1.3.1.1.7.1 also compares 2010 SWAT blue mussel tissue nickel concentrations to NS&T national median and national 85th percentiles to place Maine data into a national context. Maine SWAT sites had nickel concentrations distributed about the national median, with only Spring Point, South Portland, exceeding the national median. No 2010 SWAT nickel concentrations exceeded the NS&T national 85th percentile, and so no SWAT sites were considered to be elevated for nickel. Higher nickel concentrations are probably associated with sediment ingestion, similar to iron and aluminum concentrations. The highest nickel concentration in the 2010 SWAT sites (Spring Point, South Portland) was also found at the same site having the highest iron and aluminum concentrations indicating sediment in the mussel gut may be a contributing factor to nickel concentration in the samples.

Nickel occurs naturally in the environment and is an essential trace element to biological processes. Nickel from soil and weathering of rocks enters rivers and provides the largest source of nickel to coastal waters. Nickel occurs in stainless steel, nickel-cadmium batteries, pigments, computers, wire, coins, and is used in electroplating. Heightened nickel concentrations occur in the Great Lakes and speculation about sources centers on air deposition from a large nickel smelting operation in Ontario, Canada (Kimbrough, 2008).

Nickel is not thought to bioaccumulate in the food chain, however, nickel can be harmful to humans in large doses, inducing effects including bronchitis and even cancer from long term exposure (Kimbrough, 2008). The MCDC reports a non-cancer FTAL for nickel in non-commercially caught finfish of 43 ug/g wet weight (ppm), which is more conservative than the FDA action level for shellfish of 80 ug/g wet weight (ppm). The maximum mean concentration detected by SWAT in 2010 of 0.35 ug/g wet wt. (ppm) at Spring Point, South Portland, is two orders of magnitude below the more conservative MCDC action level. MCDC does not report a cancer action level for nickel.

Figure 1.3.1.1.7.1: Nickel in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

1.3.1.1.8 Lead (Pb)

Lead was detected in all three SWAT blue mussel sites visited in 2010. Lead levels detected in mussels ranged from a low mean concentration of 0.89 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 7.47 ug/g dry wt. at Crockett Point, Rockland (Figure 1.3.1.1.8.1). Only Wadsworth Cove, Castine, was less than the Gulfwatch median, with Spring Point, South Portland, and Crockett Point, Rockland, falling not only above the median but also above the Gulfwatch 85th percentile.

Figure 1.3.1.1.8.1 also compares 2010 SWAT blue mussel lead tissue concentrations to NS&T national median and national 85th percentiles to place Maine data into a national context. Crockett Point, Rockland, and Spring Point, South Portland, exceeded the NS&T national median, while Wadsworth Cove, Castine fell very near (but just below) the national median. The two higher sites at Crockett Point and Spring Point exceeded the NS&T national 85th percentile for lead (2.61 ug/g dry wt.)(2008 NS&T data, latest available), and are considered elevated based on criteria in the SWAT and Gulfwatch programs. Prior samples from both Spring Point and Crockett Point taken in 2007 both show somewhat lower levels of lead in blue mussel tissue (Table 1.3.1.1.8.1). Other Maine sites with elevated lead levels sampled in recent years suggest that concentrations are not increasing but have been relatively stable at sites statewide (and Gulf of Maine-wide in the Gulfwatch program).

Table 1.3.1.1.8.1 Lead Trends in Blue Mussels at Two Sites

Year	Spring Point, S. Portland	Crockett Point, Rockland
2007	4.36 ug/g dry wt.	5.49 ug/g dry wt.
2010	5.95 ug/g dry wt.	7.47 ug/g dry wt.

Spring Point, South Portland, is located just outside Portland Harbor and is located down current on an outgoing tide from the highly developed harbor. Major sewage treatment facilities from Portland and South Portland enter into Portland Harbor/Fore River. The oil terminal for the Portland pipeline is located just across from the Spring Point sampling station, which is also adjacent to a commercial marina/boat yard. Crockett Point, Rockland, is located in a busy commercial fishing port, and on a peninsula that has a history of commercial development. Due to the proximity of these sites to coastal development, Spring Point and Crockett Point have been selected to be sampled more frequently to enable assessment of trends in contaminants. As a result, repeated sampling at these sites should yield a more complete picture of trends in contaminants, including lead. Some inter-annual variability is to be expected, and contaminant patchiness may also be a factor in the variation in lead levels from year to year.

Lead occurs naturally in the earth's crust, however, global lead concentrations in the environmental have increased in the last century due to the use of leaded gasoline. Reduction in lead loading through regulation of leaded gasoline and lead paints has occurred in recent decades. Elevated lead levels in the environment occur due to manufacturing, paints, lead solder, ammunition, plumbing, incineration and burning of fossil fuels. Lead loading in coastal waters is related to wastewater discharge, river runoff, atmospheric deposition, and natural weathering of crustal rock (Kimbrough, 2008).

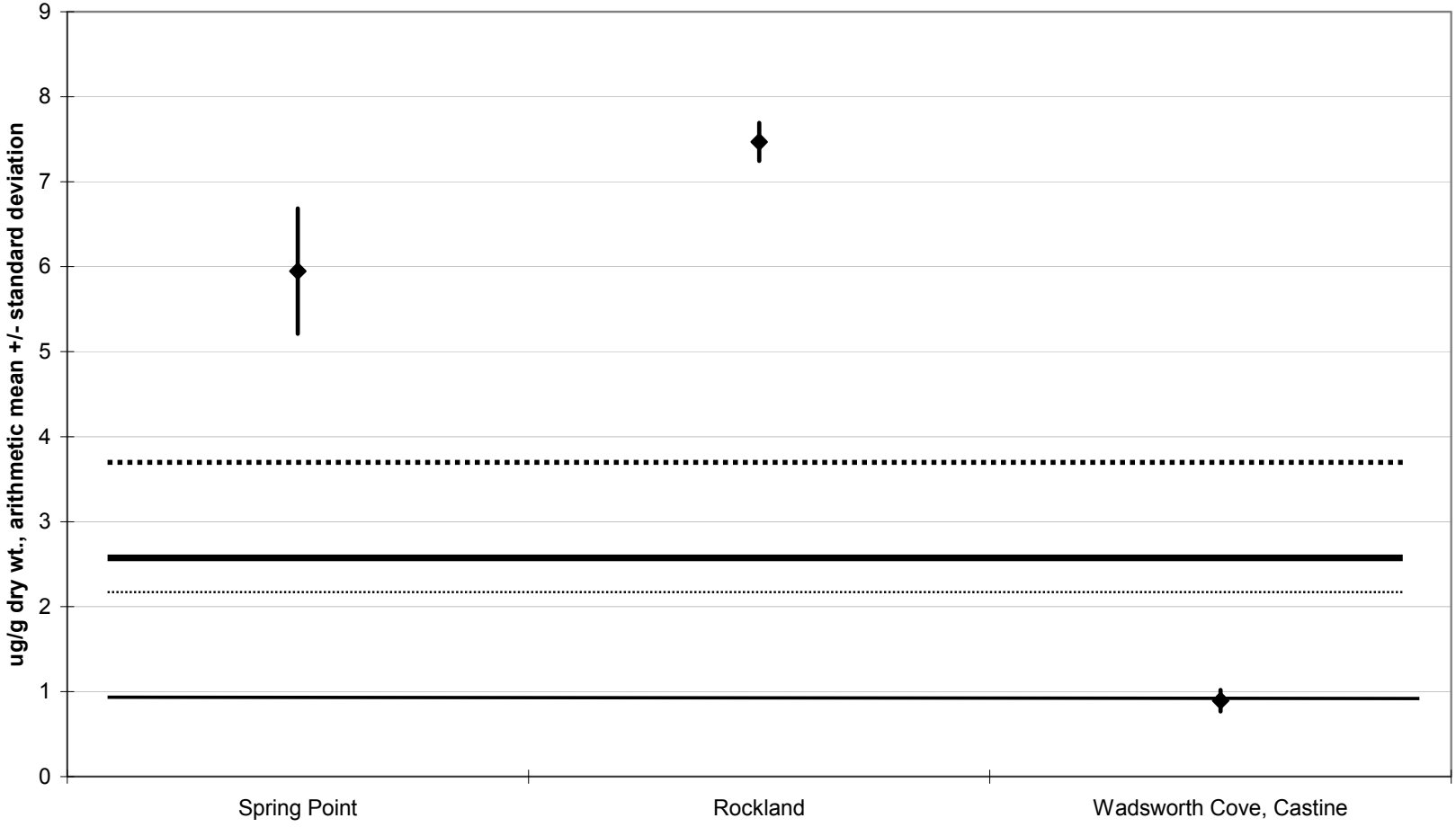
From a human health perspective, the FDA action level for lead in clams, oysters, and mussels is 1.7 ug/g wet wt. (ppm) (Kimbrough, 2008). The more conservative MCDC lead FTAL in non-commercially caught sportfish is 0.6 ug/g wet wt. (ppm), which is based on a blood lead concentration model. The highest mean concentration in the 2010 Maine SWAT data, 1.27 ppm (ug/g) wet wt. at Crockett Point, Rockland, exceeds the MCDC lead FTAL, as does Spring Point, South Portland (0.73 ug/g wet wt.). Wadsworth Cove, Castine, did not exceed the MCDC FTAL for lead.

Review of the 2007-09 SWAT blue mussel sampling data from 42 sites indicates that mean lead concentrations at eight sites equaled or exceeded the MCDC lead FTAL. Sites sampled in those years equaling or exceeding the MCDC FTAL for lead are:

Spring Point, S. Portland, 2007	0.6 ppm wet wt.
Middle Fore R., Portland, 2007	0.6 ppm wet wt.
East End Beach, Portland, 2007	0.8 ppm wet wt.
Crockett Point, Rockland, 2007	1.1 ppm wet wt.
Camden Harbor, Camden, 2007	0.7 ppm wet wt.
Goose Falls, Brooksville, 2007	1.1 ppm wet wt.
Piscataqua River Back Channel, Kittery, 2008	0.6 ppm wet wt.
East End Beach, Portland, 2009	0.8 ppm wet wt.

The MCDC lead FTAL is based on the consumer eating an 8 oz. meal. Maine SWAT data indicates that an 8 oz. meal would include approximately 45-50 blue mussels of the size tested by the SWAT program.

Figure 1.3.1.1.8.1: Lead in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

1.3.1.1.9 Mercury (Hg)

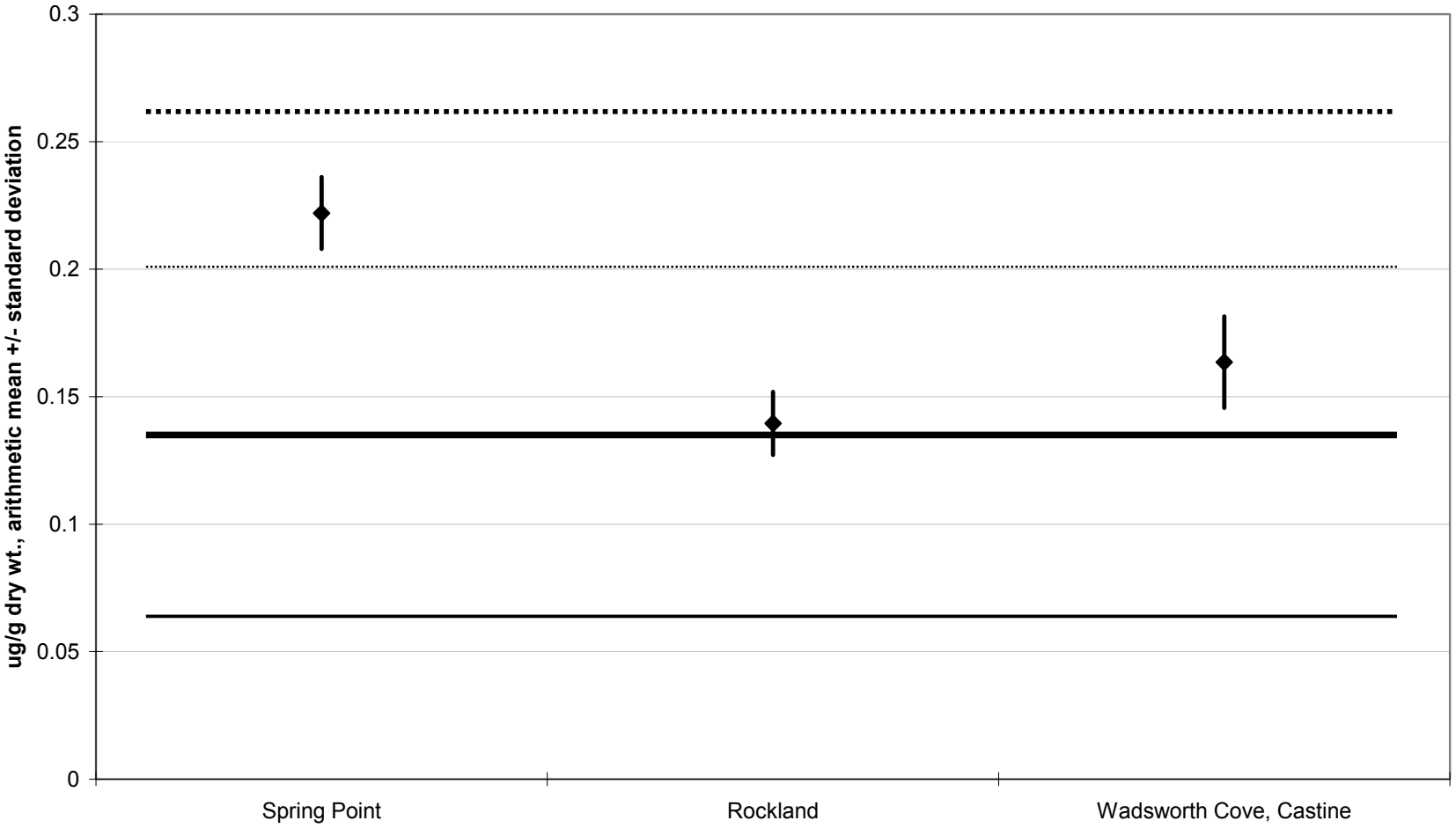
Mercury was detected in all three blue mussel sample locations visited in 2010. Mercury levels detected in mussels ranged from a low mean concentration of 0.14 µg/g dry wt. at Crockett Point, Rockland, to a high mean concentration of 0.22 µg/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.9.1). Only Spring Point, South Portland, exceeded the 2008 Gulfwatch median, and none of the sites tested in 2010 exceeded the Gulfwatch 85th percentile.

Figure 1.3.1.1.9.1 also compares 2010 SWAT blue mussel mercury concentrations to NS&T Mussel Watch national median and 85th percentile values. The reader should note that Gulfwatch median and 85th percentile values actually exceed NS&T Mussel Watch median and 85th percentile values, respectively, since the northeastern US has relatively high mercury levels due to air deposition of mercury from a wide range of sources in the Midwest US. Based on the Gulfwatch and SWAT criteria of "elevated" contaminants being those above the NS&T national 85th percentile, all the SWAT sites tested in 2010 would be considered elevated for mercury, despite their more typical scores when compared to other northeast US samples from the Gulf of Maine.

Mercury occurs naturally in the environment; however elevated levels are associated with anthropogenic sources. United States sources of mercury to the air include coal fired electrical power generation, incinerators, mining, landfills, and sewage sludge (Kimbrough, 2008).

From a human health perspective, the developmental methylmercury FTAL (more protective) used by the MCDC is 0.2 ug/g (ppm) wet wt. for non-commercially caught finfish (fish filet). This FTAL assumes an 8 oz. meal size is consumed weekly. Maine SWAT data uses a total mercury value, which is a more complete measure of mercury than the methylmercury concentration, but includes this more toxic form. Total mercury is therefore a more protective measurement than methylmercury alone. The highest mean blue mussel total tissue mercury concentration measured in Maine in 2010 was 0.027 µg/g wet wt. (ppm) at Spring Point, South Portland. This compares favorably with the MCDC methylmercury developmental FTAL of 0.2 ppm, assuming a similar meal size and frequency. To consume approximately 8 oz. of blue mussel tissue the consumer would need to eat approximately 45-50 blue mussels based on the mean mass per mussel collected by the SWAT program.

Figure 1.3.1.1.9.1: Mercury in 2010 SWAT Blue Mussels



Dotted lines = 2008 Gulfwatch Median and 85th Percentile; Solid lines = 2008 National Status and Trends Median and 85th Percentile.

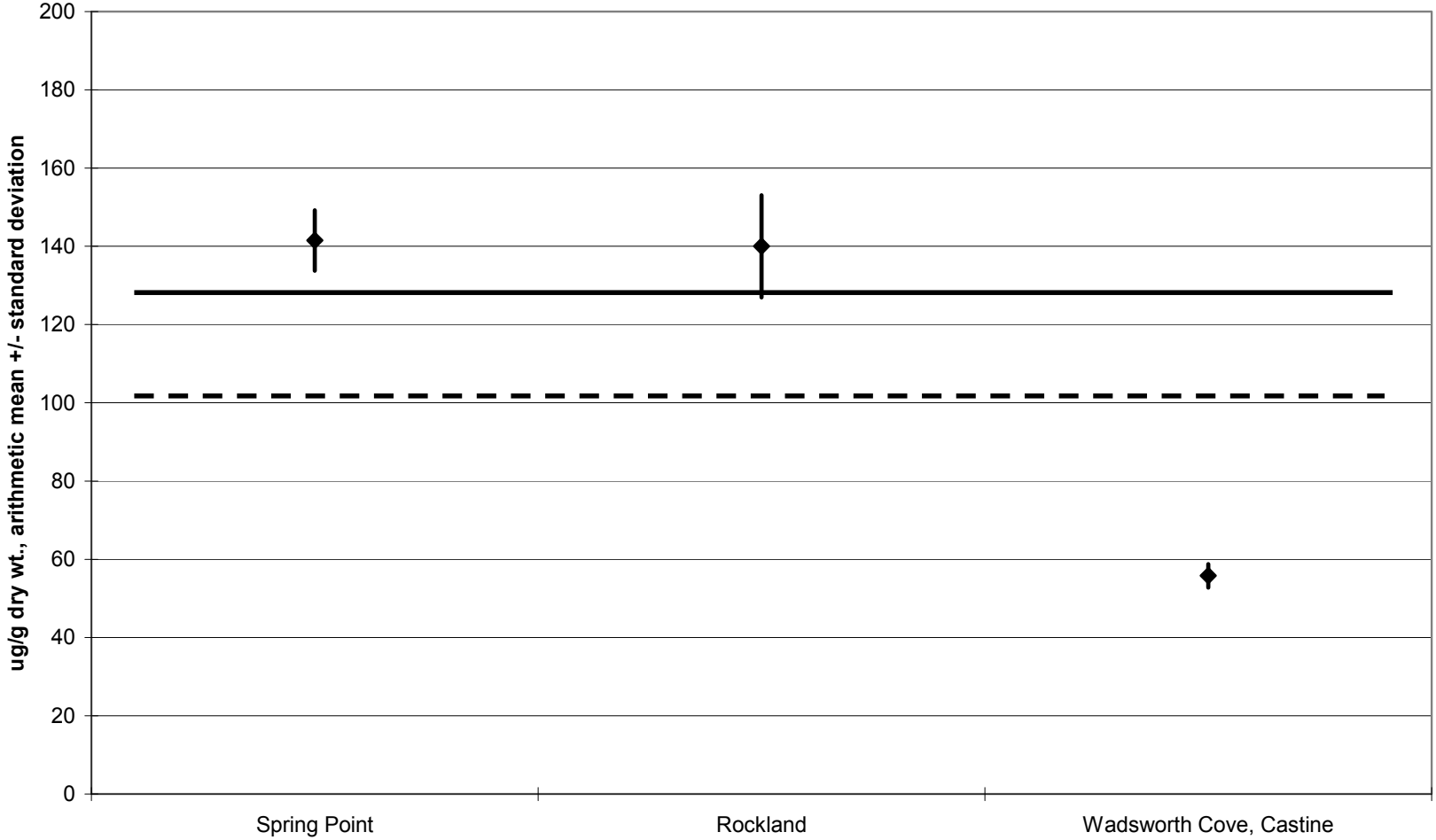
1.3.1.1.10 Zinc (Zn)

Zinc was detected in all three sample locations visited in 2010. Zinc levels detected in mussels ranged from a low mean concentration of 55.8 ug/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 141.5 ug/g dry wt. at Spring Point, South Portland (Figure 1.3.1.1.10.1). The SWAT blue mussel tissue zinc concentrations at Spring Point, South Portland, and Crockett Point, Rockland, exceeded both the 2008 Gulfwatch median and the Gulfwatch 85th percentile. Wadsworth Cove, Castine, had a zinc concentration well below the Gulfwatch median.

Figure 1.3.1.1.10.2 shows 2010 Maine SWAT blue mussel zinc concentrations were all below the NS&T Mussel Watch national median, and so it follows that all SWAT concentrations also fell below the NS&T 85th percentile.

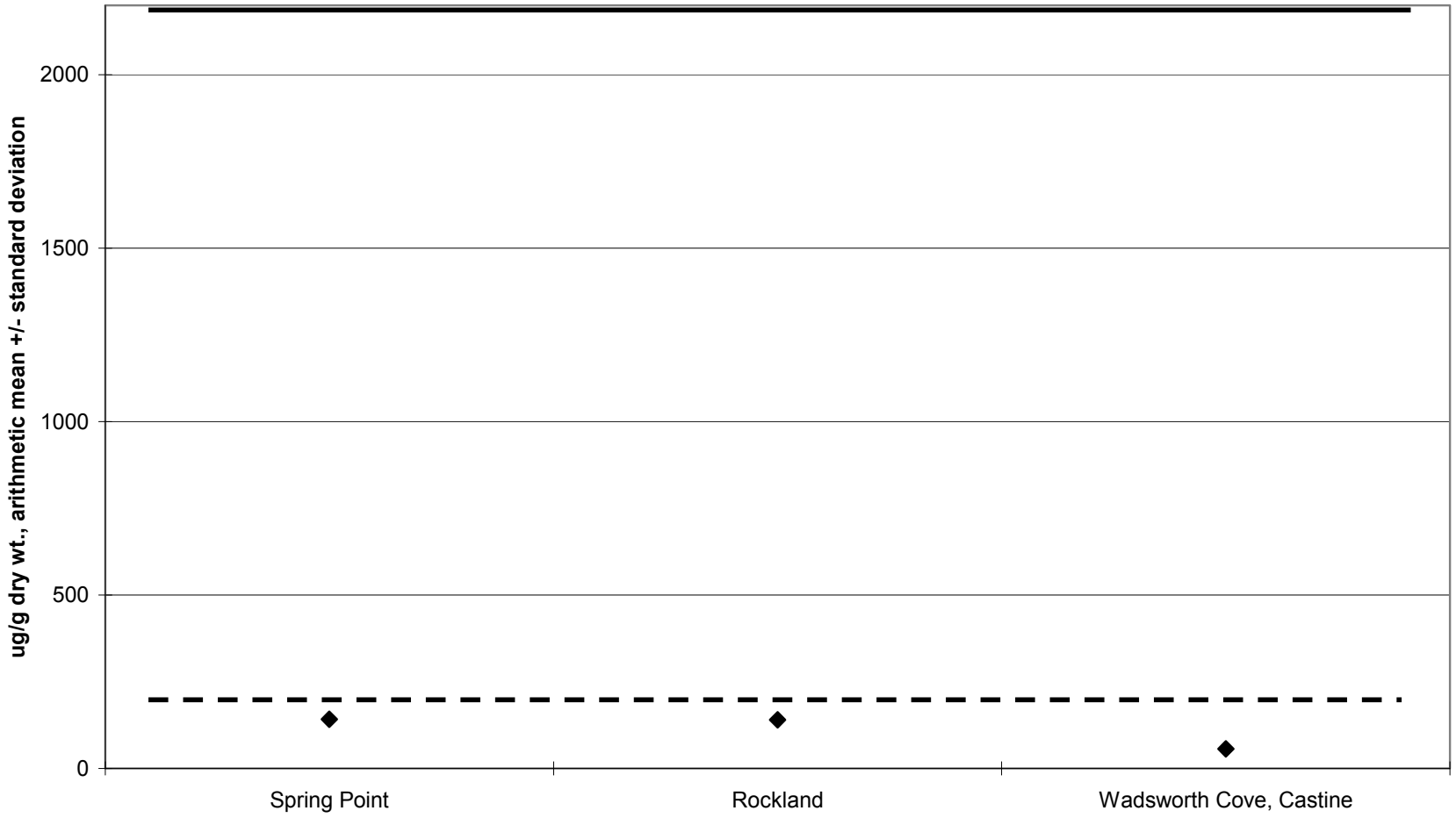
Zinc is widespread in its distribution but elevated levels primarily originate from a variety of human activities including vehicle tire wear, electroplating and galvanized metals, industrial wastes, and drainage from mining (Kimbrough, 2008). Though an essential nutrient at low levels, higher doses to humans can cause anemia or pancreatic and kidney damage. Since humans do not bioaccumulate zinc, health impacts are normally associated with high doses. From a human health perspective, MCDC reports a non-cancer FTAL for zinc of 648 ug/g wet wt. (ppm), which is much higher than any wet wt. concentrations observed in SWAT blue mussel tissue. There is no recommended FDA safety level for zinc in fish (Kimbrough, 2008).

Figure 1.3.1.1.10.1: Zinc in 2010 SWAT Blue Mussels



Dashed line = 2008 Gulfwatch Median; Solid line = 2008 Gulfwatch 85th Percentile.

Figure 1.3.1.1.10.2: Zinc in 2010 SWAT Blue Mussels



Dashed line = 2008 National Status and Trends Median; Solid line = 2008 National Status and Trends 85th Percentile.

1.3.1.2 Softshell Clams

Softshell clam tissue samples collected in 2010 were analyzed by Battelle Marine Sciences Laboratory, Sequim, WA. Clam tissues from 2004-05 were analyzed by Pace Analytical Services, Minneapolis, MN. The samples were analyzed for 11 metals: Silver (Ag), aluminum (Al), arsenic (Ar), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), lead (Pb), mercury (Hg), nickel (Ni), and zinc (Zn).

Results were compared to Gulf of Maine (Gulfwatch, see LeBlanc, 2009) softshell clam data to place Maine SWAT data set in a regional context.

1.3.1.2.1 Silver (Ag)

Silver was detected in all eight sample locations visited. Silver detected in clams ranged from a low mean concentration of 0.13 ug/g dry wt. at Harris Cove, Eastport, to a high mean concentration of 2.08 ug/g dry wt. at Mast Cove, Eliot (Figure 1.3.1.2.1.1). Silver mean concentrations in SWAT softshell clams were also compared to the Gulfwatch median concentration for four sites sampled in 2008 (two in Maine and two in New Hampshire). The mean concentration at Mast Cove, Eliot, exceeded the Gulfwatch median (1.32 ug/g dry wt.).

Higher silver concentrations in water and sediments coincide with municipal sewage discharge (Sanudo-Wilhelmy and Flegal, 1992; Buchholtz ten Brink et al., 1997). Silver concentrations in Maine softshell clams appear to be relatively low. The highest Gulfwatch values, which came from the two NH sites, were just over 2 ug/g dry wt. which is very similar to the Mast Cove, Eliot SWAT site tissue concentration. Increasing use of silver, including nanosilver, in products such as clothing and paints and caulks, makes monitoring silver of interest at present and in the future.

The Maine Center for Disease Control, Bureau of Health (MCDC) silver non-cancer fish tissue action level (FTAL) is 11 ug/g wet wt. (ppm) for non-commercially caught fish. The highest SWAT softshell clam tissue mean silver concentration, when expressed on a wet weight basis, is 0.32 ug/g wet wt. at Mast Cove, Eliot. This concentration is over an order of magnitude below the 11 ug/g wet wt. FTAL, assuming the same meal size is applied.

1.3.1.2.2 Arsenic (As)

Arsenic was detected at Morse Cove, Castine, the only site tested in 2010 and the only softshell clam site where tissue was tested for arsenic. This was not part of the metals data provided by the previous SWAT contract laboratory when clam sampling was completed in 2004-05. The mean arsenic concentration in Morse Cove clams was 9.97 ug/g dry wt. While Gulfwatch does not monitor arsenic in blue mussels in the Gulf of Maine, arsenic in mussels and oysters is tracked regionally and nationally by NS&T. In blue mussels, NS&T considers 5-11 parts per million dry wt. (directly comparable to SWAT ug/g data) to be in the lowest of three ranges of arsenic concentration (Kimbrough, 2008). The mean arsenic level in softshell clams at Morse Cove fell into this range, although as noted this is for mussels/oysters. However, it is of interest to give a point of comparison for Maine clam data.

Nationally, the primary source for elevated levels of arsenic is crustal rock. Other than natural sources, industrial pollution can contribute arsenic to the environment from preserved wood, semiconductors, pesticides, defoliants, pigments, antifouling paints, and veterinary medicines.

Atmospheric sources include smelting, fossil fuel combustion, power generation, and pesticide application (Kimbrough, 2008).

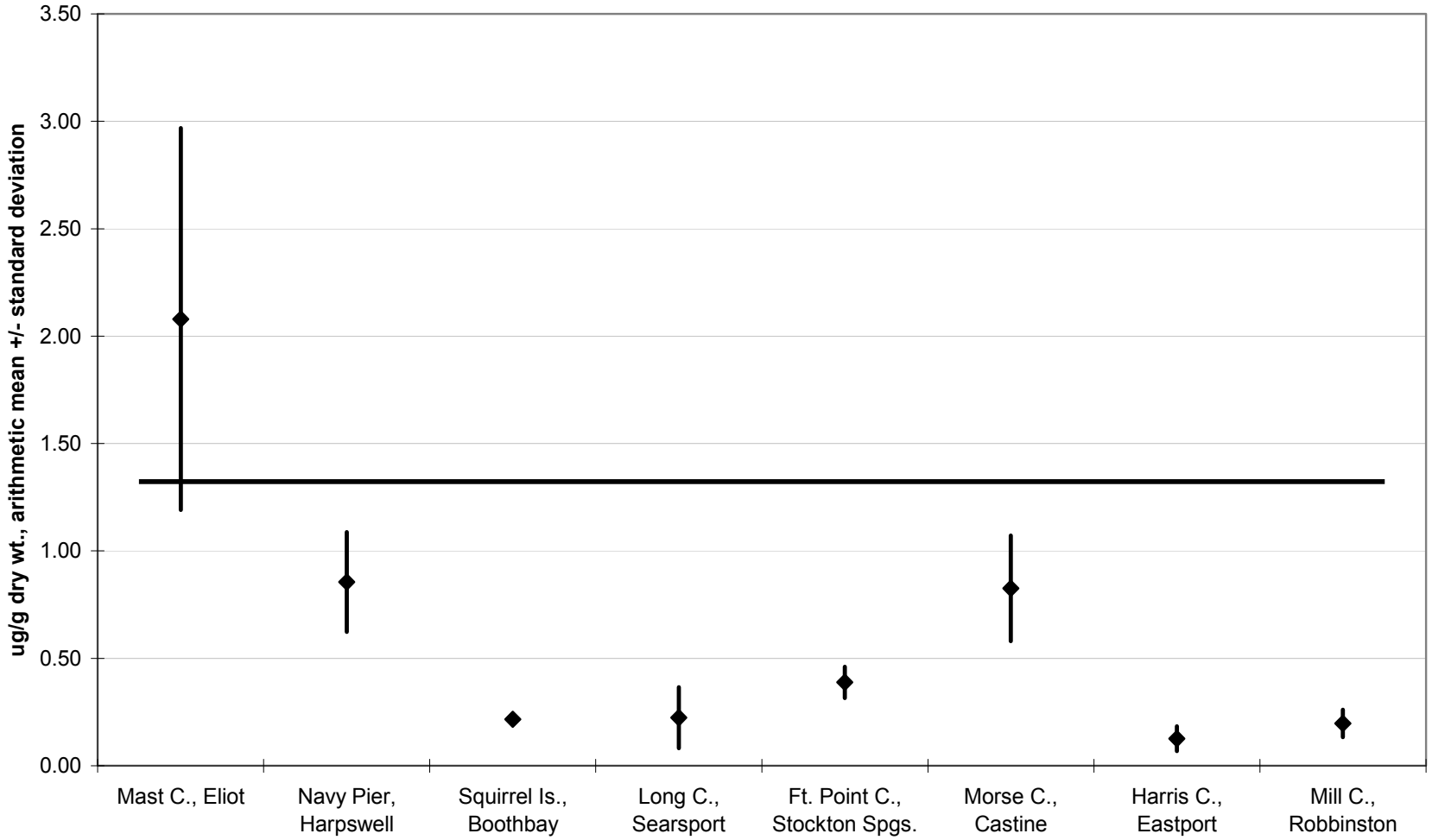
For non-commercially caught finfish, MCDC reports a cancer FTAL of 0.014 ppm and a non-cancer FTAL of 0.6 ppm, both for inorganic arsenic (the most toxic form). Most fish tissue data, including the SWAT blue mussel tissue data are, are analyzed for total arsenic, not inorganic arsenic. MCDC uses FDA's 1993 assumption that 10% of total arsenic in finfish is inorganic arsenic. Using this assumption, SWAT softshell clam data were transformed to inorganic arsenic by dividing wet weight concentrations by a factor of 10. Therefore, the Morse Cove clam inorganic arsenic mean concentration is estimated to be 0.16 ug/g wet wt., which exceeds the MCDC cancer FTAL of 0.014 ug/g wet wt. (ppm). Note that all blue mussel sites sampled since arsenic data has been recorded as part of the SWAT program also exceed the MCDC cancer FTAL. The Morse Cove estimated mean inorganic arsenic concentration does not exceed the MCDC non-cancer action level of 0.6 ug/g wet wt. (ppm) for inorganic arsenic. MCDC non-commercially caught finfish FTALs applied here assume an 8 oz. meal eaten by the consumer on a weekly basis.

1.3.1.2.3 Cadmium (Cd)

Cadmium was detected in tissue from all eight clam locations visited. Cadmium levels detected in softshell clams ranged from a low mean concentration of 0.31 ug/g dry wt. at Squirrel Island, Southport, to a high mean concentration of 0.77 ug/g dry wt. at Mill Cove, Robbinston (Figure 1.3.1.2.3.1). Only Mill Cove and Navy Pier, Harpswell, approached the 2008 Gulfwatch median, with all eight sites falling below that median. Cadmium originates from crustal elements as rocks weather and is transported seaward by rivers, which account for approximately half of worldwide cadmium sources. Cadmium is also released naturally through forest fires and volcanic activity, with anthropogenic sources including manufacturing, fossil fuel combustion, and agriculture. Industrial sources include manufacture of batteries, plating, stabilizers, and nuclear power (Kimbrough, 2008).

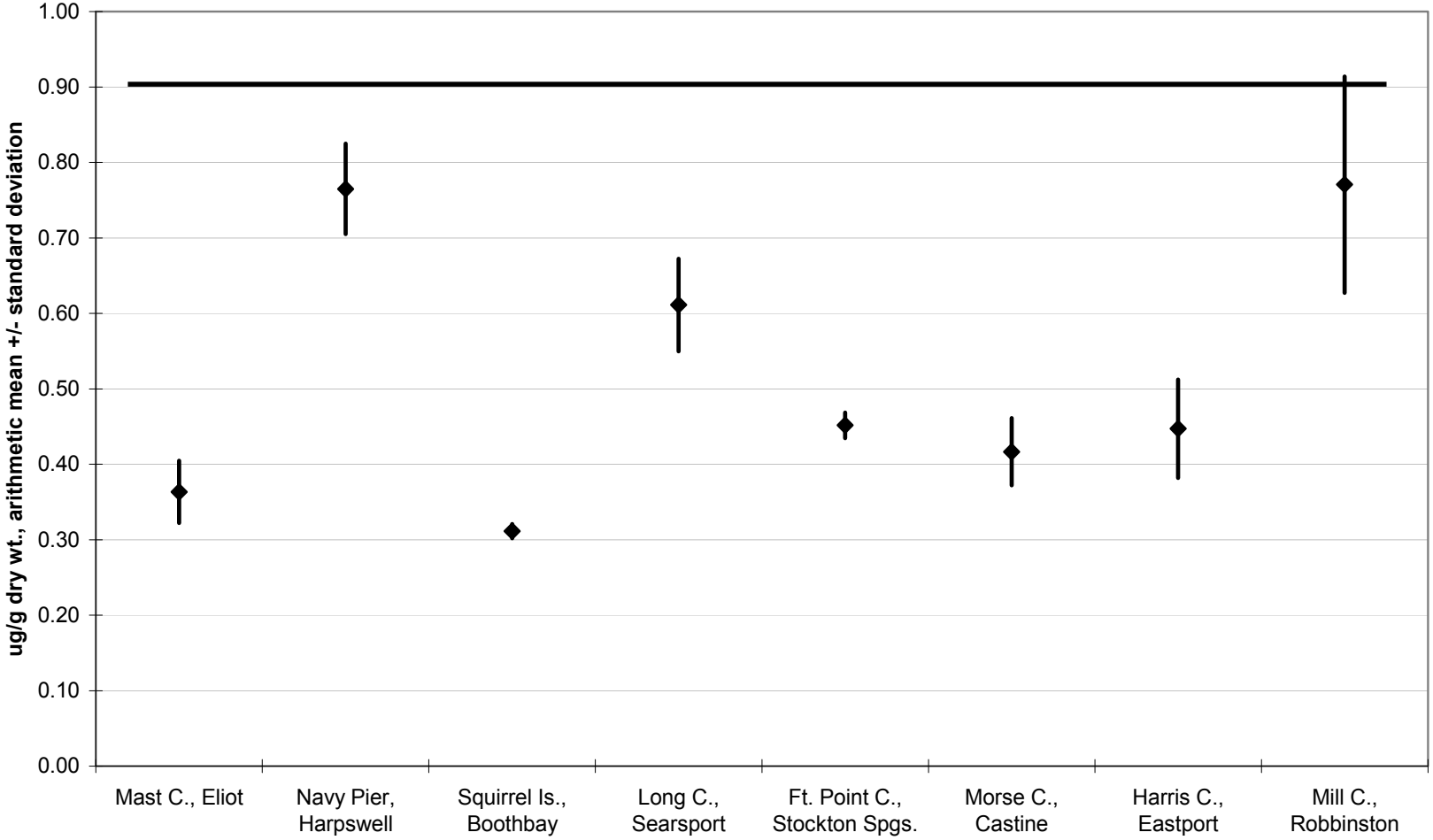
From a human health perspective, the MCDC non-cancer FTAL for cadmium in non-commercially caught finfish is 2.2 ug/g wet wt. The FDA action level for clams, oysters, and mussels is 4 ppm wet wt. (Kimbrough, 2008). The highest scoring SWAT clam site, Mill Cove, Robbinston, had a mean cadmium concentration of 0.088 ug/g wet wt., which was well below the MCDC and FDA action levels (4% of the more conservative MCDC non-cancer FTAL).

Figure 1.3.1.2.1.1: Silver in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

Figure 1.3.1.2.3.1: Cadmium in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

1.3.1.2.4 Chromium (Cr)

Chromium was detected at all eight sites sampled. Chromium levels detected in clam tissue ranged from a low mean concentration of 3.67 ug/g dry wt. at Long Cove, Searsport, to a high mean concentration of 13.32 ug/g dry wt. at Mast Cove, Eliot (Figure 1.3.1.2.4.1).

Figure 1.3.1.2.4 depicts SWAT softshell clam chromium concentrations compared to the Gulfwatch 2008 median concentration for four sites (two each in ME and NH). All clam sites but one, Long Cove, Searsport, fell above the Gulfwatch 2008 median. The Fort Point Cove, Stockton Springs, clam tissue chromium concentration was essentially the same as the Gulfwatch 2008 median.

Chromium is used extensively in tanning leather and was discharged with untreated tannery effluent during the last two centuries. Chromium persists in the marine environment in sediments near anthropogenic sources (Kimbrough, 2008).

From a human health perspective, the MCDC FTALs (7 ug/g cancer action level and 11 ug/g non-cancer action level) for chromium are based on chromium VI, and are not directly comparable to SWAT results, which are for total chromium.

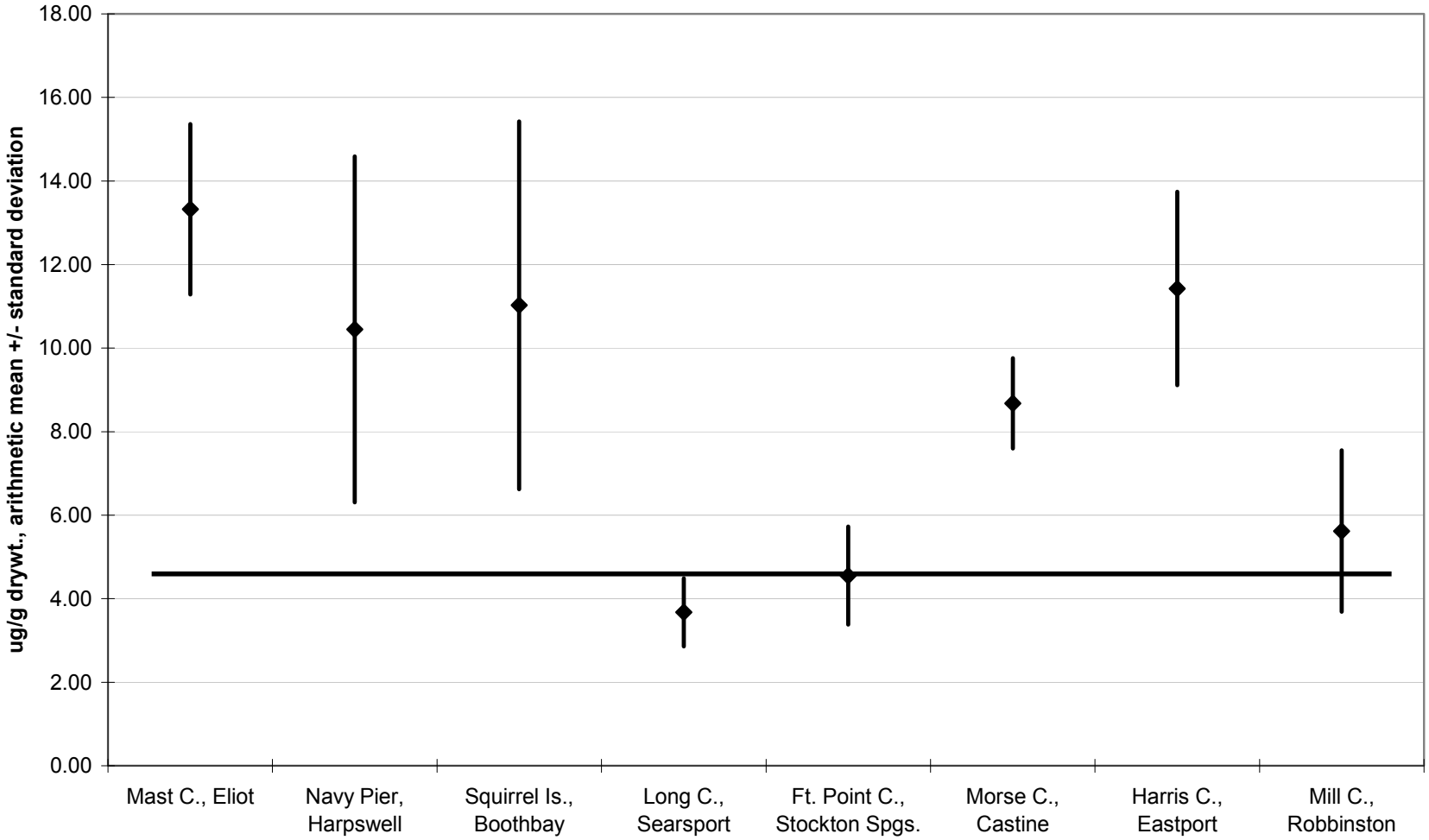
1.3.1.2.5 Copper (Cu)

Copper was detected in samples taken at all eight SWAT softshell clam sites visited. Copper levels detected in clam tissue ranged from a low mean concentration of 7.31 ug/g dry wt. at Long Cove, Searsport, to a high mean concentration of 13.07 ug/g dry wt. at Mast Cove, Eliot (Figure 1.3.1.2.5.1). Copper concentrations in clam tissue at all eight sites fell below the 2008 Gulfwatch median (LeBlanc, 2009).

Copper occurs naturally in the environment and is ubiquitous, including in the marine environment. Copper, in trace amounts, is considered to be an important nutrient for plant and animal growth. Heightened copper concentrations can occur due to anthropogenic sources, including mining, agriculture, sewage sludge, antifouling paint, fungicides, wood preservatives, and brake pads. With the reduction of the use of chromated copper arsenate (CCA) wood preservative due to its phase out by EPA regulations, newer wood preservatives utilizing even higher levels of copper have come into use, including quaternary copper. Similarly, tributyltin marine bottom paint use was reduced in the 1980s, resulting in increased use of copper-based antifouling paints and asbestos removal from brake pads has been offset by increased copper usage in brake pads (Kimbrough, 2008).

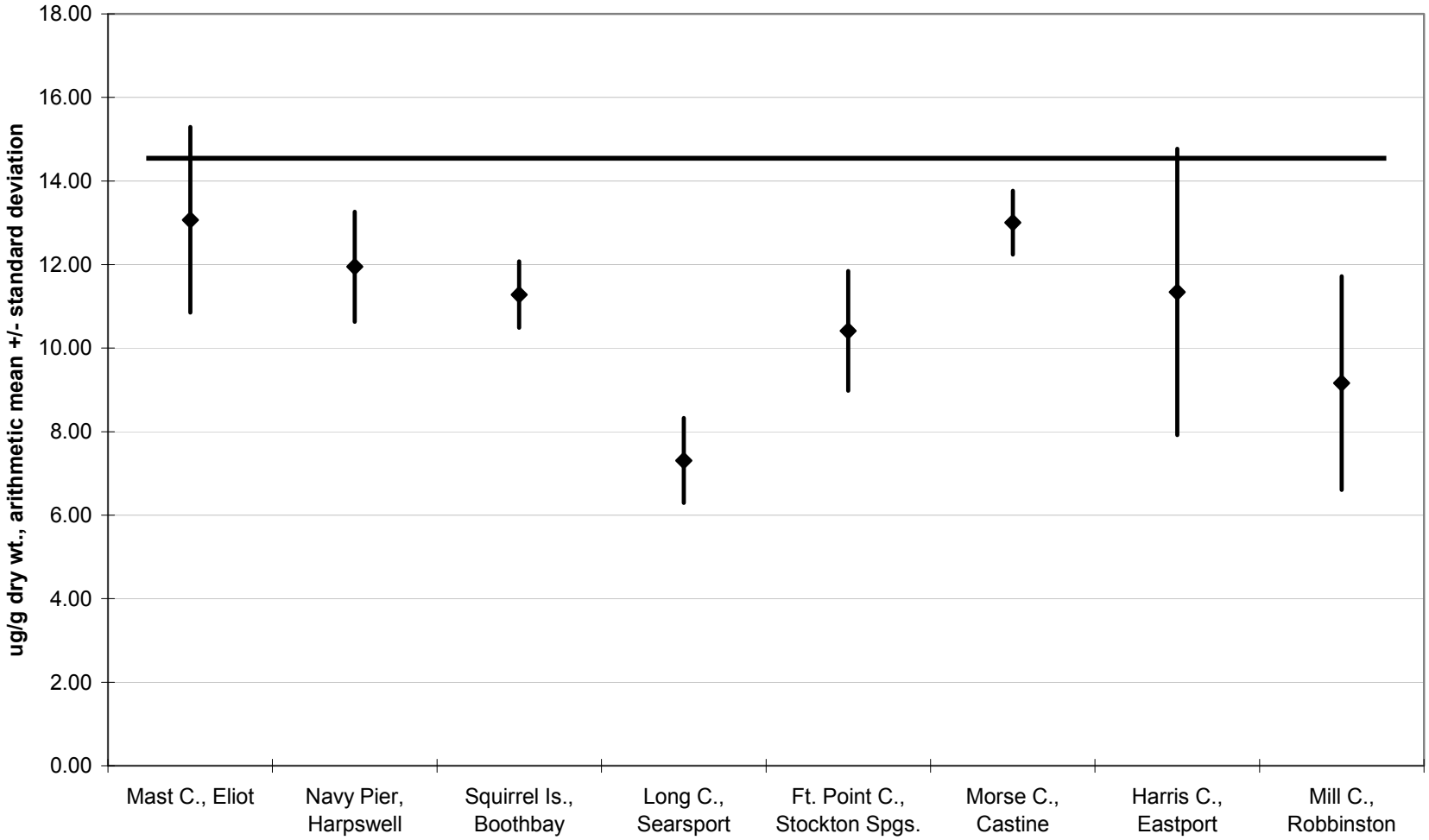
From a human health perspective, copper is not highly toxic to humans, though there are some chronic effects. There is no recommended FDA safety level for human consumption for copper in fish or shellfish (Kimbrough, 2008), nor does MCDC report a FTAL for copper in non-commercially caught sportfish.

Figure 1.3.1.2.4.1: Chromium in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

Figure 1.3.1.2.5.1: Copper in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

1.3.1.2.6 Iron (Fe) and Aluminum (Al)

Iron was detected in all eight SWAT softshell clam sites. Iron concentrations detected in clam tissue ranged from a low mean concentration of 1,370 ug/g dry wt. at Squirrel Island, Boothbay, to a high mean concentration of 4,712 ug/g dry wt. at Mast Cove, Eliot as shown in Figure 1.3.1.2.6.1. No SWAT sites had clam tissue iron concentrations that exceeded the 2008 Gulfwatch median (Figure 1.3.1.2.6.1).

Aluminum concentrations detected in clams ranged from a low mean concentration of 563 ug/g dry wt. at Squirrel Island, Boothbay, to a high mean concentration of 1,623 ug/g dry wt. at Morse Cove, Castine (Figure 1.3.1.2.6.2). None of the clam tissue from the eight sites had aluminum concentrations exceeding the 2008 Gulfwatch mean concentration.

High iron and aluminum concentrations are usually associated with the intake of high levels of suspended sediments by mussels and clams at sampled sites, with the iron and aluminum being abundant crustal elements and therefore abundant in sediments. This correlation has also been shown with gut depuration experiments conducted as part of Gulfwatch monitoring in previous years, indicating that some of the iron and aluminum is associated with gut contents and not bioaccumulated loads. Sediment loading in clam gut contents may be quite a bit higher than mussel gut loading, thus affecting aluminum and iron levels disproportionately in clam tissue concentrations since no depuration occurs prior to tissue removal.

Monitoring for iron and aluminum provides an important reference to gauge sediment intake by clams, allowing iron and aluminum levels to be referenced if other more toxic metals or contaminants are detected in tissue. If iron and aluminum concentrations are high, it is likely that a fraction of the contaminant load can be traced back to high sediment intake with some contamination coming from sediment in clam gut contents, rather than bioaccumulated contaminants from mussel tissue.

From a human health perspective, MCDC does not report FTALs for iron and aluminum.

Figure 1.3.1.2.6.1: Iron in SWAT Softshell Clams

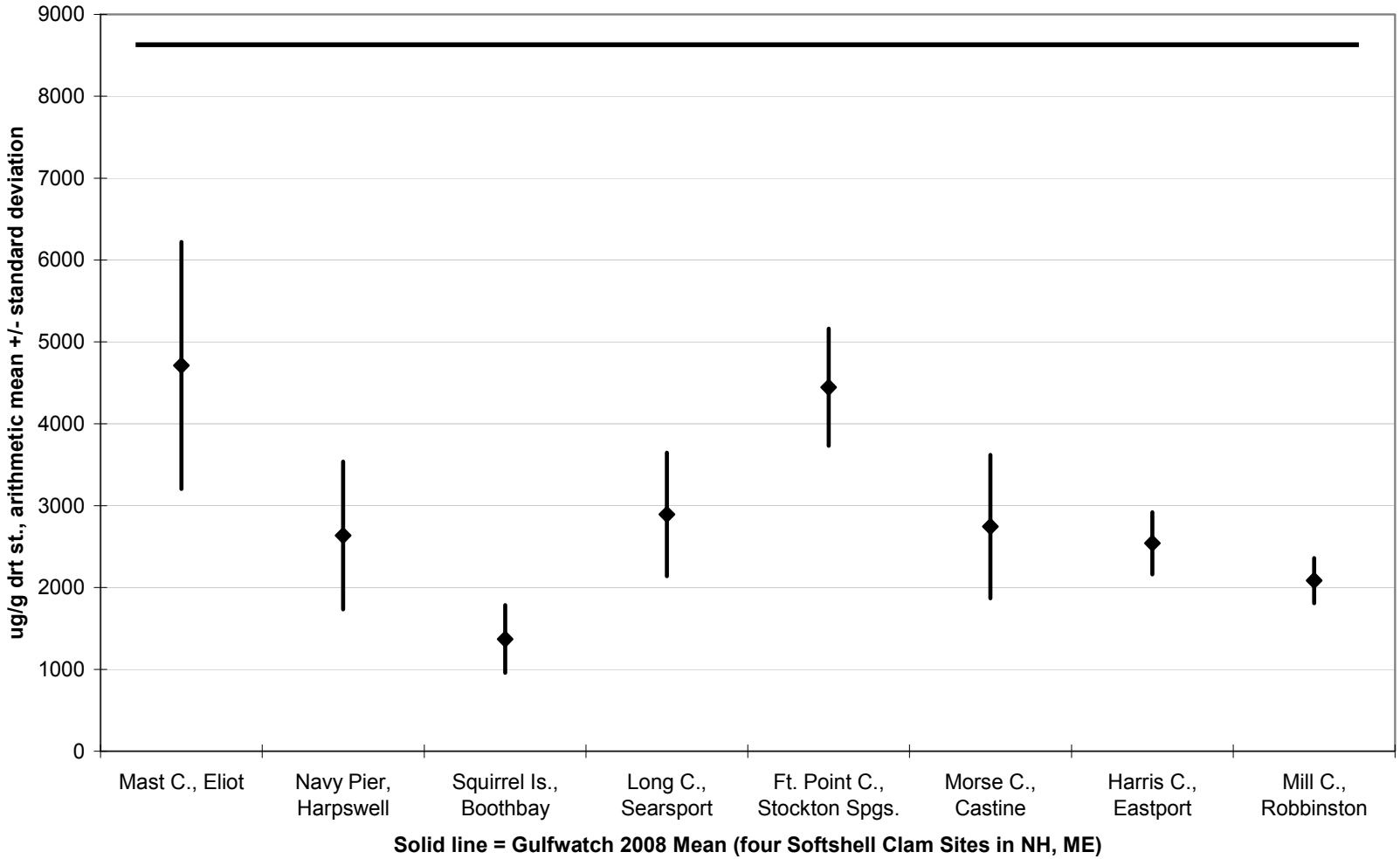
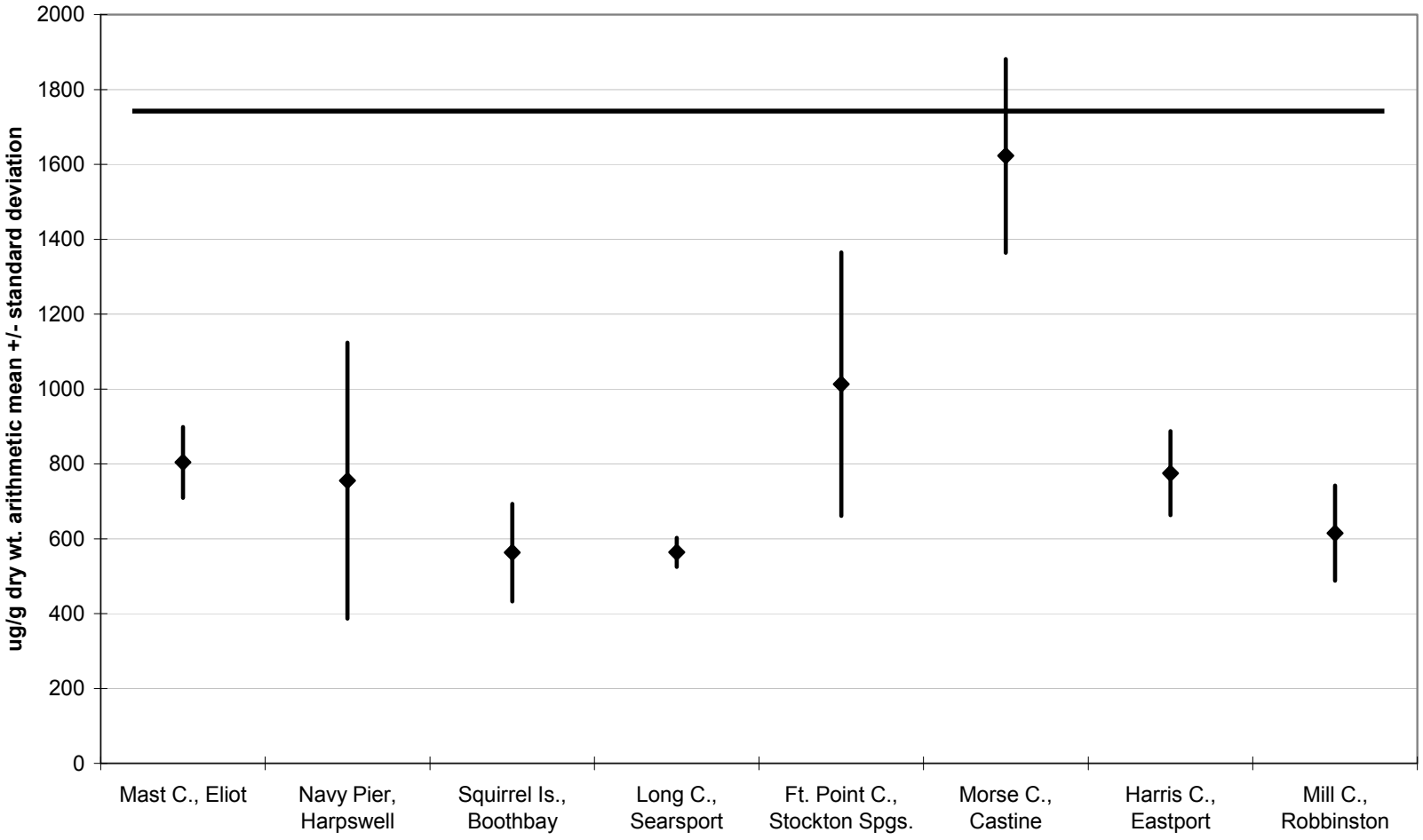


Figure 1.3.1.2.6.2: Aluminum in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

1.3.1.2.7 Nickel (Ni)

Nickel was detected in clam tissue at all eight SWAT softshell clam sites visited. Nickel levels detected in mussels ranged from a low mean concentration of 3.01 ug/g dry wt. at Long Cove, Searsport, to a high mean concentration of 9.68 ug/g dry wt. at Mast Cove, Eliot (Figure 1.3.1.2.7.1). Maine concentrations were all higher than the 2008 Gulfwatch clam median.

Higher nickel concentrations are probably associated with sediment ingestion, similar to iron and aluminum concentrations. The highest nickel concentration in the SWAT clam sites (Mast Cove, Eliot) was also found at the same site having the highest iron concentration indicating sediment in the clam gut may be a contributing factor to nickel concentration in the samples.

Nickel occurs naturally in the environment and is an essential trace element to biological processes. Nickel from soil and weathering of rocks enters rivers and provides the largest source of nickel to coastal waters. Nickel occurs in stainless steel, nickel-cadmium batteries, pigments, computers, wire, coins, and is used in electroplating. Heightened nickel concentrations occur in the Great Lakes and speculation about sources centers on air deposition from a large nickel smelting operation in Ontario, Canada (Kimbrough, 2008).

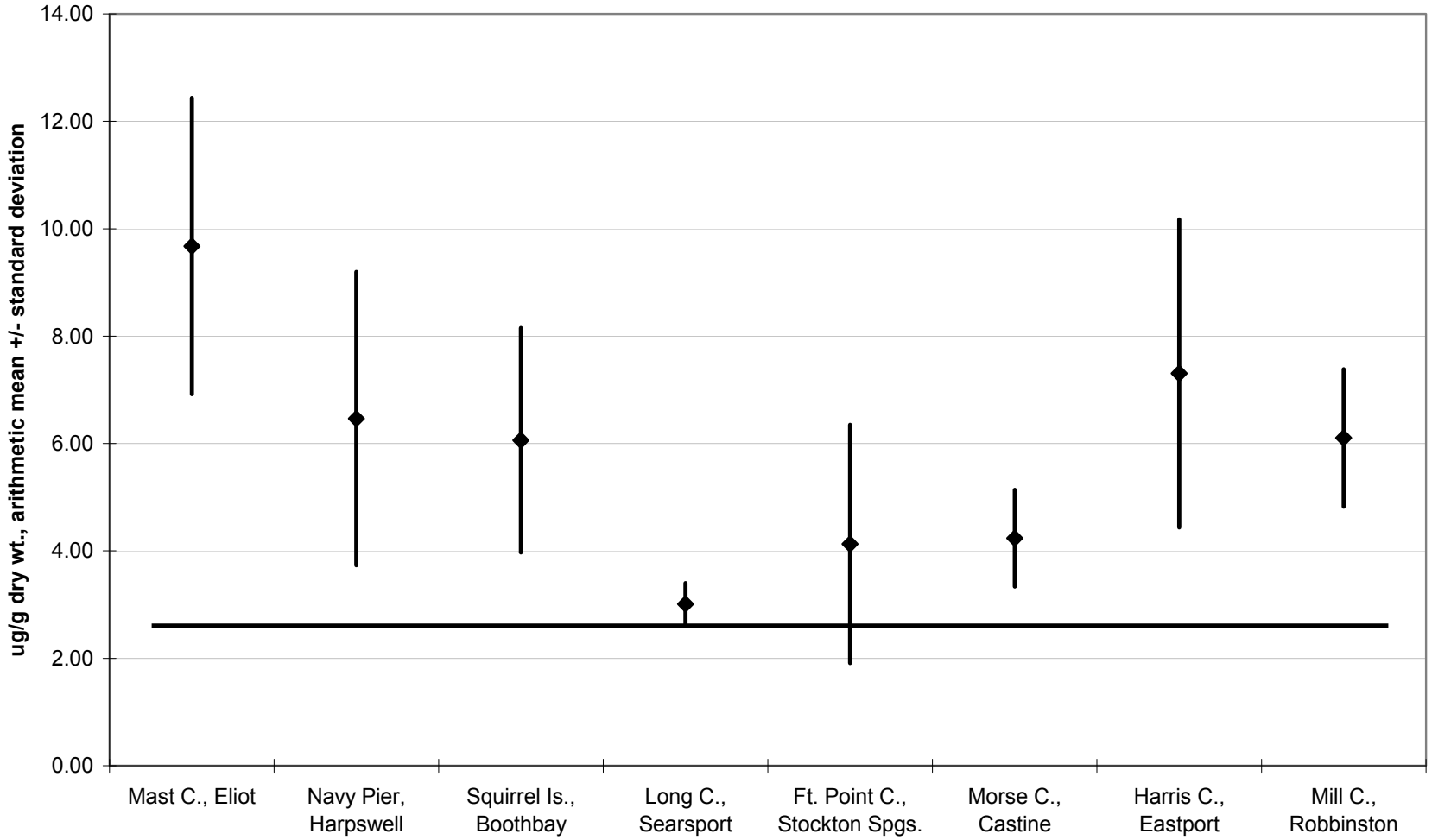
Nickel is not thought to bioaccumulate in the food chain, however, nickel can be harmful to humans in large doses, inducing effects including bronchitis and even cancer from long term exposure (Kimbrough, 2008). The MCDC reports a non-cancer FTAL for nickel in non-commercially caught finfish of 43 ug/g wet weight (ppm), which is more conservative than the FDA action level for shellfish of 80 ug/g wet weight (ppm). The maximum mean concentration detected by SWAT in clam tissue is 1.5 ug/g wet wt. (ppm) at Mast Cove, Eliot, is an order of magnitude below the more conservative MCDC action level. MCDC does not report a cancer action level for nickel.

1.3.1.2.8 Lead (Pb)

Lead was detected in all eight SWAT softshell clam sites visited. Lead levels detected in clams ranged from a low mean concentration of 1.39 ug/g dry wt. at Navy Pier, Harpswell, to a high mean concentration of 5.45 ug/g dry wt. at Harris Cove, Eastport (Figure 1.3.1.2.8.1). Mean lead clam tissue concentrations at all eight SWAT sites fell below the 2008 Gulfwatch median.

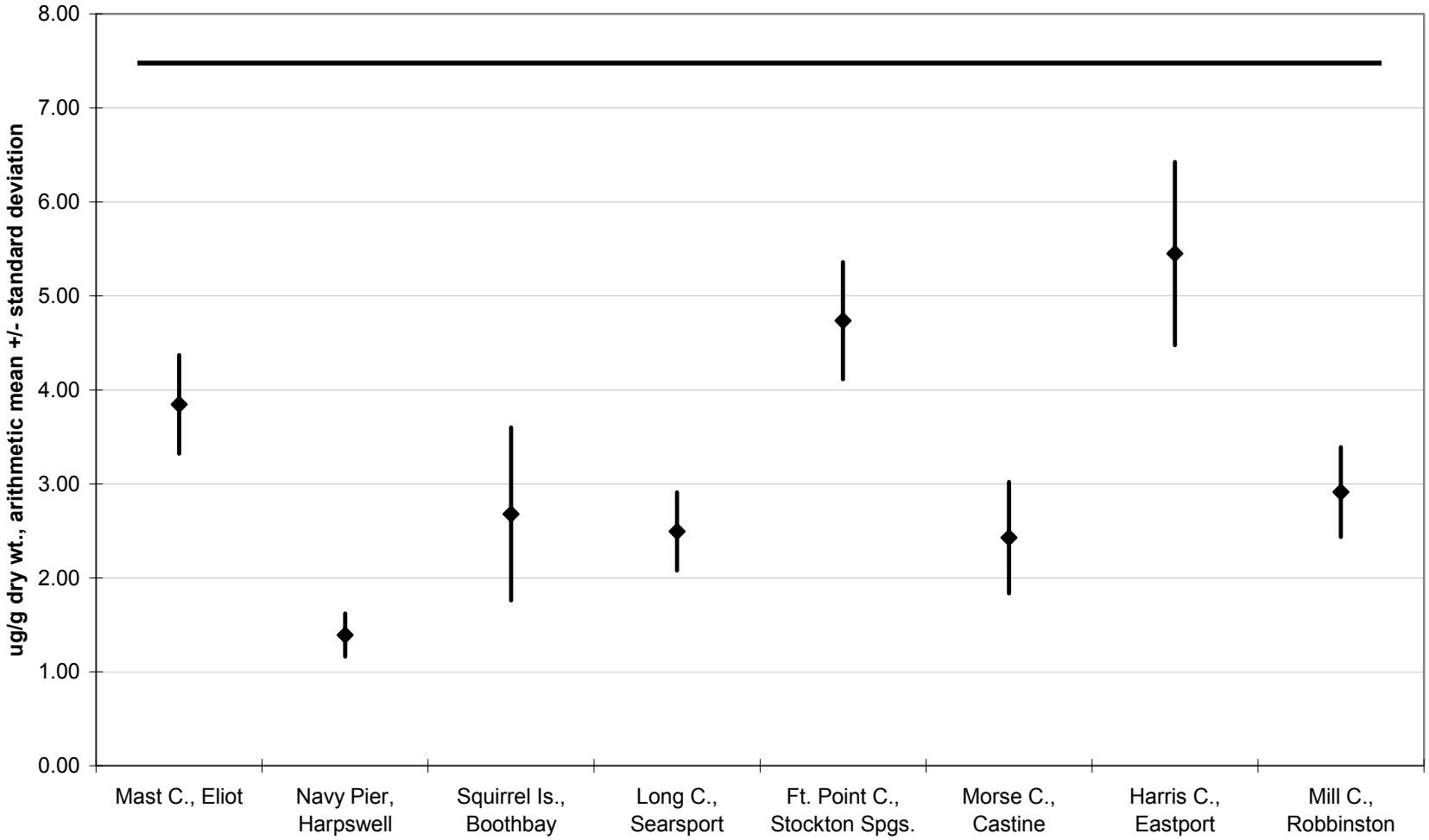
Lead occurs naturally in the earth's crust, however, global lead concentrations in the environmental have increased in the last century due to the use of leaded gasoline. Reduction in lead loading through regulation of leaded gasoline and lead paints has occurred in recent decades. Elevated lead levels in the environment occur due to manufacturing, paints, lead solder, ammunition, plumbing, incineration and burning of fossil fuels. Lead loading in coastal waters is related to wastewater discharge, river runoff, atmospheric deposition, and natural weathering of crustal rock (Kimbrough, 2008).

Figure 1.3.1.2.7.1: Nickel in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

Figure 1.3.1.2.8.1: Lead in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

From a human health perspective, the FDA action level for lead in clams, oysters, and mussels is 1.7 ug/g wet wt. (ppm) (Kimbrough, 2008). The more conservative MCDC lead FTAL in non-commercially caught sportfish is 0.6 ug/g wet wt. (ppm), which is based on a blood lead concentration model. The highest mean concentration in the Maine SWAT softshell clam data, 0.765 ppm (ug/g) wet wt. at Harris Cove, Eastport, exceeds the MCDC lead FTAL, as does Fort Point Cove, Searsport (0.647 ug/g wet wt.). Mast Cove, Eliot, (0.597 ug/g wet wt.) is at the MCDC lead FTAL. The other five SWAT softshell clam sites fell below the more conservative MCDC lead FTAL.

The MCDC FTAL is based on the consumer eating an 8 oz. meal. Maine SWAT data indicates that an 8 oz. meal would include approximately 21 softshell clams of the size tested by the SWAT program.

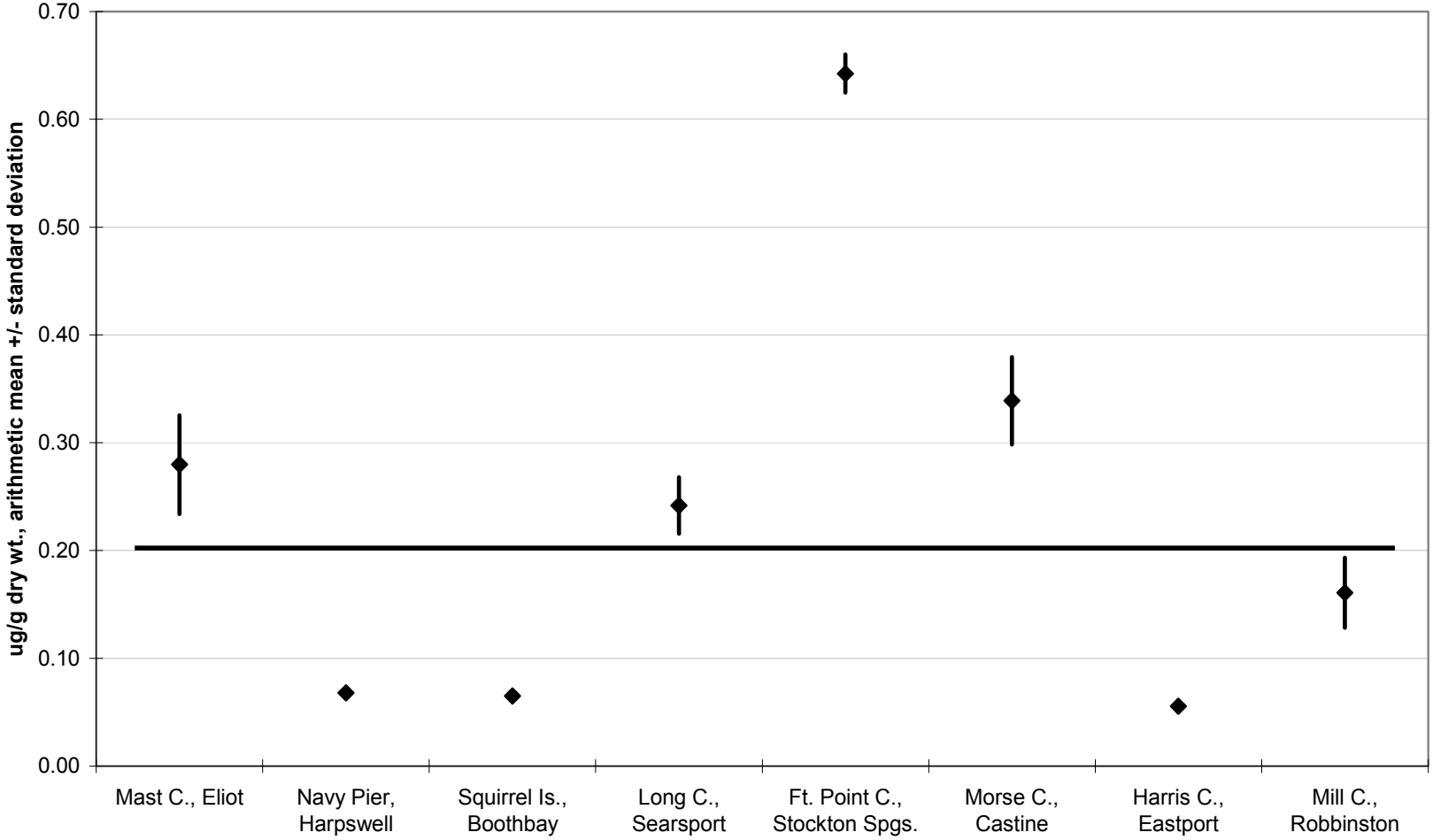
1.3.1.2.9 Mercury (Hg)

Mercury was detected in all eight softshell clam sample locations visited. Mercury levels detected in clams ranged from a low mean concentration of 0.06 µg/g dry wt. at Harris Cove, Eastport, to a high mean concentration of 0.64 µg/g dry wt. at Fort Point Cove, Stockton Springs (Figure 1.3.1.2.9.1). Four sites had clam tissue concentrations that exceeded the 2008 Gulfwatch mean: Mast Cove, Eliot; Long Cove, Searsport; Fort Point Cove, Stockton Springs; and Morse Cove, Castine (Figure 1.3.1.2.9.1).

Mercury occurs naturally in the environment; however elevated levels are associated with anthropogenic sources. United States sources of mercury to the air include coal fired electrical power generation, incinerators, mining, landfills, and sewage sludge (Kimbrough, 2008).

From a human health perspective, the developmental methylmercury FTAL (more protective) used by the MCDC is 0.2 ug/g (ppm) wet wt. for non-commercially caught finfish (fish filet). This FTAL assumes an 8 oz. meal size is consumed weekly. Maine SWAT data uses a total mercury value, which is a more complete measure of mercury than the methylmercury concentration, but includes this more toxic form. Total mercury is therefore a more protective measurement than methylmercury alone. The highest mean softshell clam total tissue mercury concentration measured by SWAT in this Maine data set was 0.088 µg/g wet wt. (ppm) at Fort Point Cove, Stockton Springs. This compares favorably with the MCDC methylmercury developmental FTAL of 0.2 ppm, assuming a similar meal size and frequency. To consume approximately 8 oz. of blue mussel tissue the consumer would need to eat approximately 21 softshell clams based on the mean mass per clam collected by the SWAT program.

Figure 1.3.1.2.9.1: Mercury in SWAT Softshell Clams



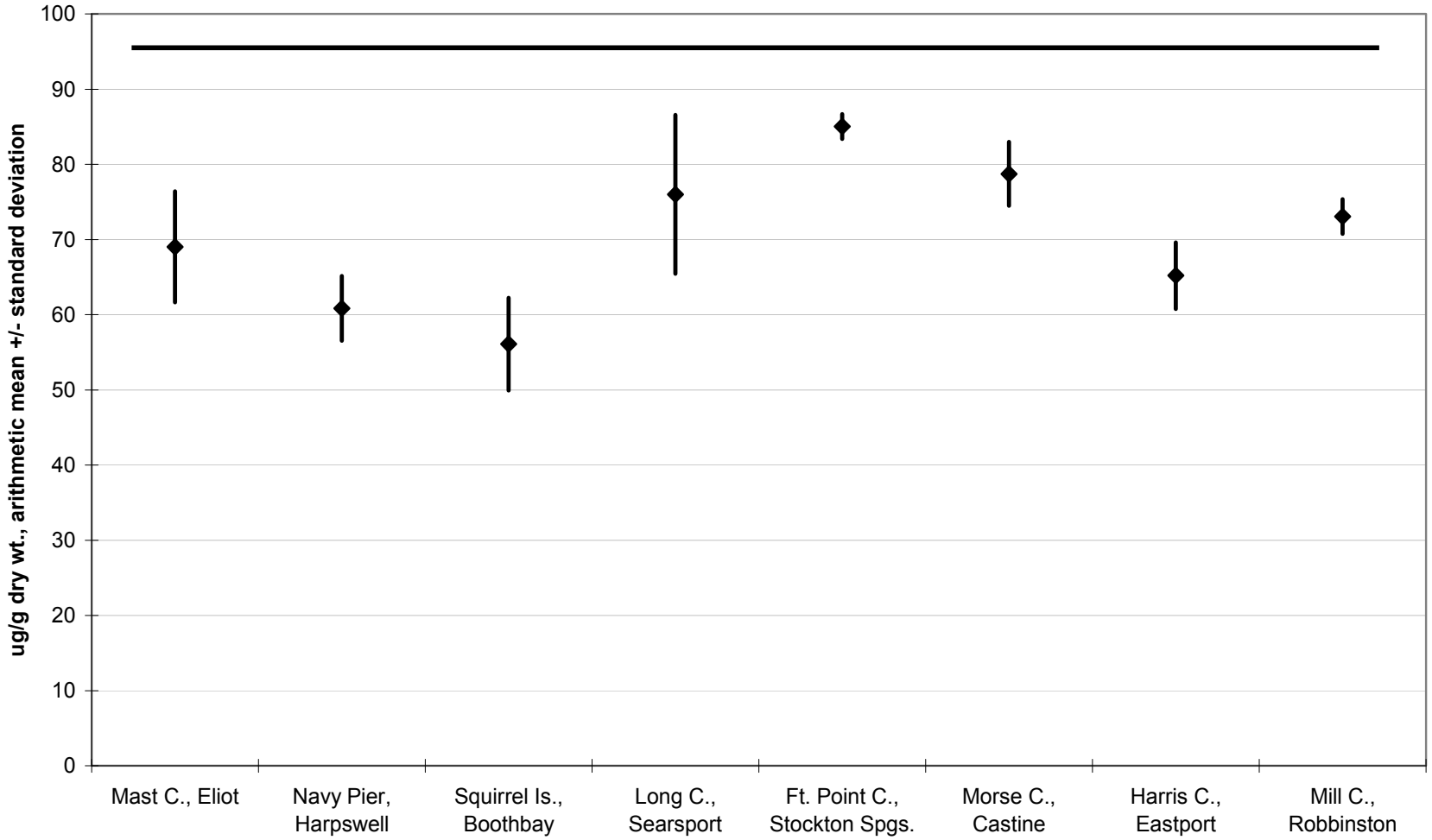
Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

1.3.1.2.10 Zinc (Zn)

Zinc was detected in all eight clam sample locations. Zinc levels detected in clams ranged from a low mean concentration of 56.1 ug/g dry wt. at Squirrel Island, Boothbay, to a high mean concentration of 85.0 ug/g dry wt. at Fort Point Cove, Stockton Springs (Figure 1.3.1.2.10.1). All eight of the SWAT clam sites had zinc tissue concentrations that fell below the 2008 Gulfwatch median.

Zinc is a widespread in its distribution but elevated levels primarily originate from a variety of human activities including vehicle tire wear, electroplating and galvanized metals, industrial wastes, and drainage from mining (Kimbrough, 2008). Though an essential nutrient at low levels, higher doses to humans can cause anemia or pancreatic and kidney damage. Since humans do not bioaccumulate zinc, health impacts are normally associated with high doses. From a human health perspective, MCDC reports a non-cancer FTAL for zinc of 648 ug/g wet wt. (ppm), which is more than an order of magnitude higher than any wet wt. concentrations observed in SWAT clam tissue. There is no recommended FDA safety level for zinc in fish (Kimbrough, 2008).

Figure 1.3.1.2.10.1: Zinc in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

1.3.2 PAHs

1.3.2.1 Blue Mussels

When available, results were compared to national (NOAA National Status & Trends, see Kimbrough, 2008) and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) blue mussel monitoring program data (when available) in an effort to place Maine SWAT data in a national and regional context.

The NS&T and the Gulfwatch programs utilize a subset of PAHs, summing results from 19, 24 and 40 individual PAHs to construct groups of PAHs, to assess overall PAH concentrations and to compare regional and national concentrations. This report utilizes the Maine SWAT blue mussel tissue PAH data generated by AXYS Analytical, which includes 74 individual and summed alkylated PAHs. To compare Maine results to the NS&T and Gulfwatch lists of 19 unsubstituted (non-alkylated) PAHs, this report sums 18 unsubstituted (non-alkylated) PAHs from 2010 SWAT data. The difference in one PAH counted is because SWAT results include BENZO[B,J,K]FLUORANTHENES, while the Gulfwatch and NS&T results include both BENZO[B]FLUORANTHENES and BENZO[K]FLUORANTHENES individually. This slight difference is not considered to be important in comparing overall summary concentrations of PAHS for purposes of this report. Though the sum of 18 PAHs in SWAT and 19 PAHs in NS&T/Gulfwatch are not completely identical, they are as close a comparison as possible. With some caution in data interpretation, this comparison may be used to place Maine SWAT blue mussel tissue PAH concentrations in a Gulf of Maine-wide and national perspective. The summation of 19 PAHs is also useful for comparison to SWAT PAH data sets prior to 2009, as previous SWAT data included only 24 individual PAHs.

Both the Gulfwatch and NS&T programs utilize a summation of 24 PAHs, which in addition to the 19 non-alkylated PAHs previously mentioned also includes some alkylated PAHs (C1, C2, C3 Napthalene, and C1-Phenanthrene). Due to the previously outlined difference regarding BENZO[B,J,K]FLUORANTHENES, the SWAT PAH summation used to compare to the Gulfwatch/NS&T summation of 24 PAHs actually contains 23 PAHs for SWAT.

The 2010 SWAT PAH data can also be used to generate a summation to compare to the Gulfwatch/NS&T summation of 40 PAHs, which includes even more alkylated PAHs. The corresponding SWAT data includes 38 PAHs, which is the closest approximation possible. As noted previously, one discrepancy is the BENZO[B,J,K]FLUORANTHENES. The second difference in the 40 PAH summation is the absence of C4-Flourenes in the SWAT data set. As a result, the SWAT summation includes 38 PAHs, rather than the 40 utilized in the Gulfwatch/NS&T programs. This difference is considered to be relatively minor, and with some caution in interpretation, still allows comparison of SWAT data to regional and national data sets.

SWAT 2010 PAH data includes additional alkylated PAHs as well, with a total of 74 PAHs included. This number has also been totaled and is presented and discussed in this report as "total PAHs." Comparisons to other summations of lesser numbers of PAHs reviewed above are included to illustrate the wider data set provided by the additional level of PAH analysis obtained for SWAT sites in recent years, including 2010. Alkylated PAHs are typically associated with pyrogenic sources, rather than the more petrogenic sources associated with non-alkylated PAHs.

Table 1.3.2.1.1, "Analyzed PAHs and PAH Summation Calculations" shows comparisons between Gulfwatch/NS&T summation lists and SWAT summation lists, and details differences between the lists with footnotes and notes in the right column of the table. It details the PAHs included in summations including 19, 24, and 40 PAHs, and includes a complete list of all PAHs for which results were obtained in 2010 (SWAT data, 74 PAHs described above).

Figure 1.3.2.1.1 shows the summation of the 19 non-alkylated PAHs compared to the summation of all 74 PAHs (including many alkylated PAHs) at the three blue mussel sites sampled by SWAT in 2010. Both the 19 summed non-alkylated PAHs and the total PAHs vary in a similar manner between sites, but through viewing the figure it is clear that the non-alkylated PAHs make up a small fraction of the total PAHs found at each site. The alkylated PAHs contribute the largest portion to the total PAHs, which is the difference between the two data series illustrated on the graph in the figure. The sum of 19 non-alkylated PAHs varied from 17% (Wadsworth Cove, Castine) to 30% (Crockett Point, Rockland) of total PAHs (74) across the 3 SWAT sites.

Total PAH concentrations ranged from a low mean concentration of 287 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 1,756 ng/g dry wt. at Crockett Point, Rockland (Figure 1.3.2.1.1). Spring Point, South Portland (1,514 ng/g dry wt.), had the second highest total PAH concentrations of the three sites sampled. The sum of 19 non-alkylated PAHs varied from a concentration of 49 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 523 ng/g dry wt. at Crockett Point, Rockland.

TABLE 1.3.2.1.1: Analyzed PAHs and PAH Summation Calculations

	SWAT		Gulfwatch, NS&T, SWAT Summations				
Parameter	2004-05	2010	Sum PAH1	Sum PAH2	Sum PAH4	Not Analyzed	Notes (See below list for more notes)
ACENAPHTHENE	x	x	x	x	x		
ACENAPHTHYLENE	x	x	x	x	x		
ANTHRACENE	x	x	x	x	x		
2-METHYLANTHRACENE		x				missing	
BENZ[A]ANTHRACENE	x	x	x	x	x		
DIBENZ(A,H)ANTHRACENE	x	x	x	x	x		
BIPHENYL	x	x	x	x	x		
BENZO[A]PYRENE	x	x	x	x	x		
BENZO(E)PYRENE	x	x	x	x	x		
7-METHYLBENZO[A]PYRENE		x				missing	
CHRYSENE	x	x	x	x	x		
1-METHYLCHRYSENE		x				missing	
5/6-METHYLCHRYSENE		x				missing	
5,9-DIMETHYLCHRYSENE		x				missing	
DIBENZOTHIOPHENE		x	x	x	x		
2,4-DIMETHYLDIBENZOTHIOPHENE		x				missing	
2/3-METHYLDIBENZOTHIOPHENES		x				missing	
FLUORANTHENE	x	x	x	x	x		
BENZO[B,J,K]FLUORANTHENES		x	x	x	x		in Gulfwatch list as BENZO[B]FLUORANTHENE and BENZO[K]FLUORANTHENE
3-METHYLFLUORANTHENE/BENZO[A]FLUORENE		x					
FLUORENE	x	x	x	x	x		
2-METHYLFLUORENE		x				missing	
1,7-DIMETHYLFLUORENE		x				missing	

TABLE 1.3.2.1.1: Analyzed PAHs and PAH Summation Calculations (continued)

	SWAT		Gulfwatch, NS&T, SWAT Summations				
Parameter	2004-05	2010	Sum PAH1	Sum PAH2	Sum PAH4	Not Analyzed	Notes (See below list for more notes)
NAPHTHALENE	x	x	x	x	x		
1-METHYLNAPHTHALENE		x				missing	
2-METHYLNAPHTHALENE		x				missing	
1,2-DIMETHYLNAPHTHALENE		x				missing	
2,6-DIMETHYLNAPHTHALENE		x				missing	
2,3,5-TRIMETHYLNAPHTHALENE		x				missing	
2,3,6-TRIMETHYLNAPHTHALENE		x				missing	
1,4,6,7-TETRAMETHYLNAPHTHALENE		x				missing	
PERYLENE	x	x		x	x		
BENZO[GHI]PERYLENE	x	x	x	x	x		
PHENANTHRENE	x	x	x	x	x		
1-METHYLPHENANTHRENE		x				missing	
2-METHYLPHENANTHRENE		x				missing	
3-METHYLPHENANTHRENE		x				missing	
9/4-METHYLPHENANTHRENE		x				missing	
1,7-DIMETHYLPHENANTHRENE		x				missing	
1,8-DIMETHYLPHENANTHRENE		x				missing	
2,6-DIMETHYLPHENANTHRENE		x				missing	
3,6-DIMETHYLPHENANTHRENE		x				missing	
1,2,6-TRIMETHYLPHENANTHRENE		x				missing	
PYRENE	x	x	x	x	x		
INDENO[1,2,3-CD]PYRENE	x	x	x	x	x		

TABLE 1.3.2.1.1: Analyzed PAHs and PAH Summation Calculations (continued)

	SWAT		Gulfwatch, NS&T, SWAT Summations				
Parameter	2004-05	2010	Sum PAH1	Sum PAH2	Sum PAH4	Not Analyzed	Notes (See below list for more notes)
RETENE		x				missing	
C1-ACENAPHTHENES		x				missing	
C1-BENZO[A]ANTHRACENES/CHRYSENES		x			x		in Gulfwatch list as C1-CHRYSENE
C2-BENZO[A]ANTHRACENES/CHRYSENES		x			x		in Gulfwatch list as C2-CHRYSENE
C3-BENZO[A]ANTHRACENES/CHRYSENES		x			x		in Gulfwatch list as C3-CHRYSENE
C4-BENZO[A]ANTHRACENES/CHRYSENES		x			x		in Gulfwatch list as C4-CHRYSENE
C1-BENZOFLUORANTHENES/BENZOPYRENES		x				missing	
C2-BENZOFLUORANTHENES/BENZOPYRENES		x				missing	
C1-BIPHENYLS		x				missing	
C2-BIPHENYLS		x				missing	
C1-DIBENZOTHIOPHENES		x			x		
C2-DIBENZOTHIOPHENES		x			x		
C3-DIBENZOTHIOPHENES		x			x		
C4-DIBENZOTHIOPHENES		x				missing	
C1-FLUORANTHENES/PYRENES		x			x		
C2-FLUORANTHENES/PYRENES		x			x		
C3-FLUORANTHENES/PYRENES		x				missing	
C4-FLUORANTHENES/PYRENES		x				missing	
C1-FLUORENES		x			x		
C2-FLUORENES		x			x		
C3-FLUORENES		x			x		
C1-NAPHTHALENES		x		x	x		
C2-NAPHTHALENES		x		x	x		
C3-NAPHTHALENES		x		x	x		
C4-NAPHTHALENES		x				missing	

TABLE 1.3.2.1.1: Analyzed PAHs and PAH Summation Calculations (continued)

	SWAT		Gulfwatch, NS&T, SWAT Summations				
Parameter	2004-05	2010	Sum PAH1	Sum PAH2	Sum PAH4	Not Analyzed	Notes (See below list for more notes)
C1-PHENANTHRENES/ANTHRACENES		x		x	x		in Gulfwatch list as C1-PHENANTHRENE
C2-PHENANTHRENES/ANTHRACENES		x			x		in Gulfwatch list as C2-PHENANTHRENE
C3-PHENANTHRENES/ANTHRACENES		x			x		in Gulfwatch list as C3-PHENANTHRENE
C4-PHENANTHRENES/ANTHRACENES		x			x		in Gulfwatch list as C4-PHENANTHRENE
C4-FLUORENES					x		Not analyzed by SWAT

FOOTNOTES:

List of 'Sum PAH19' only has 18 compounds in it because we have BENZO[B]FLUORANTHENES and BENZO[K]FLUORANTHENES listed as one compound, BENZO[B,J,K]FLUORANTHENES; same applies to 'Sum PAH24' which has only 23 compounds

List of 'Sum PAH40' only has 38 compounds in it because we have BENZO[B]FLUORANTHENES and BENZO[K]FLUORANTHENES listed as one compound, BENZO[B,J,K]FLUORANTHENES and we do not have SWAT/AXYS data for C-4 FLUORENES (at bottom of above list)

In calculating the various summations, the approach used by SWAT is: Where SWAT has a slight variation from Gulfwatch in analytes, use the closest approximation to the Gulfwatch list as with the BENZO[B,J,K]FLUORANTHENES, the C1/2/3/4-BENZO[A]ANTHRACENES

Figure 1.3.2.1.1: Sum of 19 PAHs and Total PAHs at 2010 SWAT Blue Mussel Sites

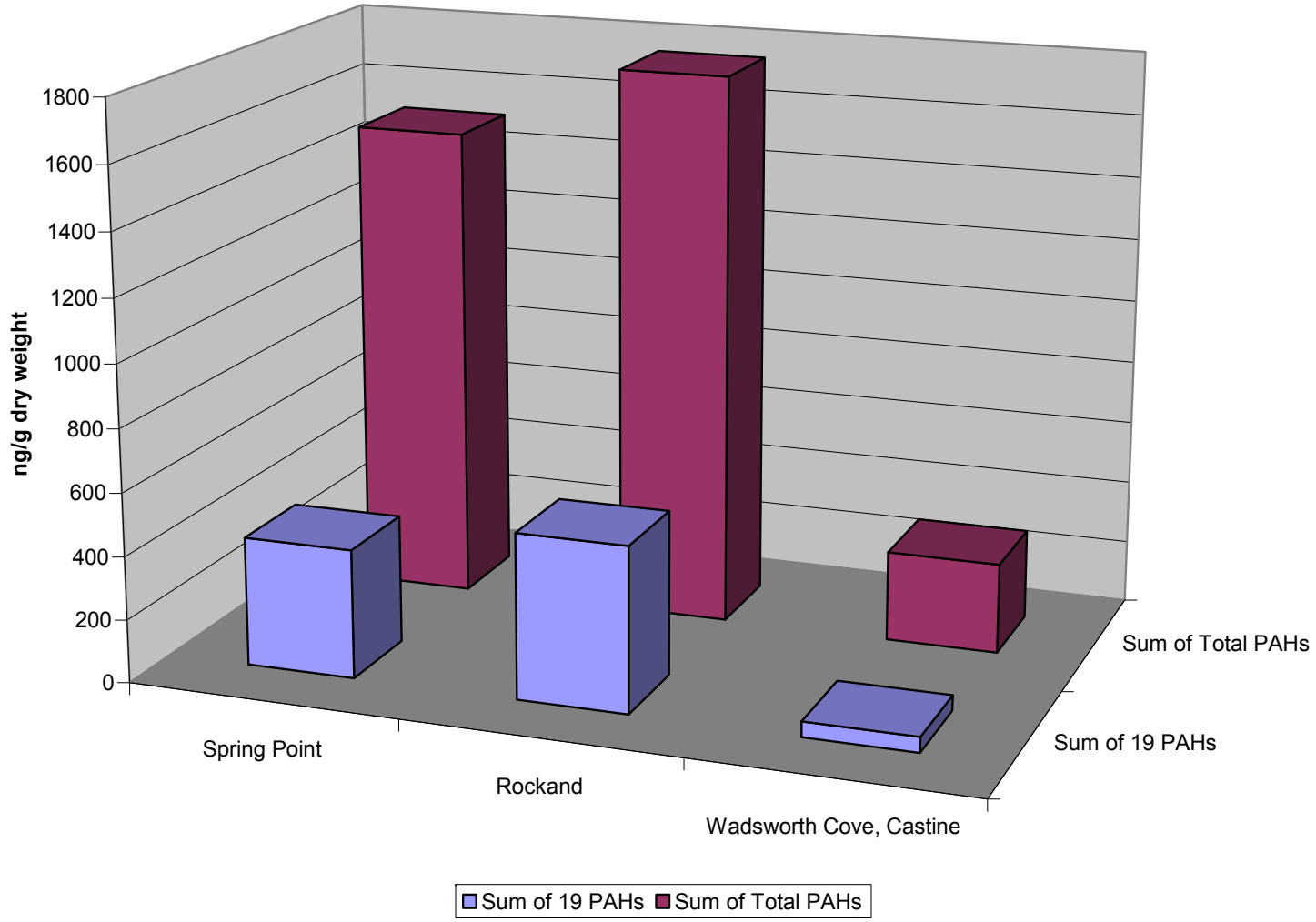


Figure 1.3.2.1.2 presents the sum of 19 PAHs across the SWAT blue mussel sites sampled in 2010, and compares these results with Gulfwatch 2008 median and 85th percentile results. Of the three SWAT sites tested in 2010, Crockett Point, Rockland, and Spring Point, South Portland, exceeded the Gulfwatch 2008 median of 154 ng/g (dry weight) for 19 summed PAHs. Only one site, Crockett Point, Rockland, exceeded the Gulfwatch 85th percentile of 429 ng/g (dry weight) for 19 summed PAHs. The remaining site at Spring Point, South Portland, was essentially the same as the Gulfwatch 85th percentile concentration. Despite the use of 18 summed PAHs (SWAT) to compare to 19 summed PAHs utilized in the Gulfwatch program, the summation of non-alkylated PAHs is useful for putting Maine data into a regional, Gulf of Maine context.

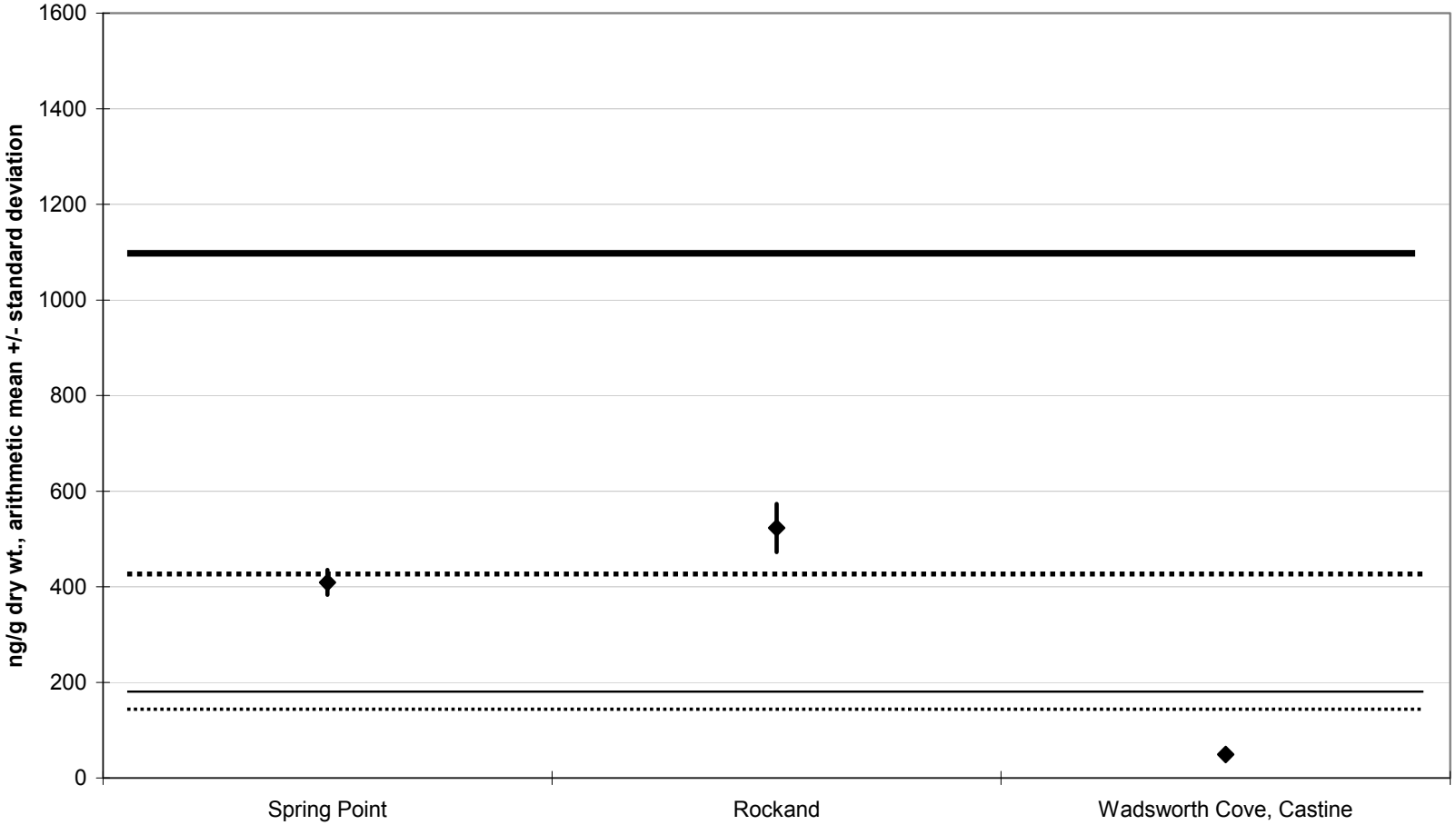
Figure 1.3.2.1.2 also compares the sum of 19 non-alkylated PAHs at the 2010 SWAT sites to recent NS&T median and 85th percentile for 19 summed non-alkylated PAHs (2008 data, the most recent available). Of the three SWAT sites tested in 2010, Crockett Cove, Rockland, and Spring Point, South Portland, exceeded the 2008 NS&T national median of 180 ng/g (dry weight) for 19 summed non-alkylated PAHs. None of the three SWAT mussel sites approached or exceeded the NS&T national 85th percentile of 1,104 ng/g (dry weight) for 19 summed PAHs.

The Gulfwatch program also utilized a summation of 24 PAHs in reports, the composition of which is outlined above. SWAT data was converted into this format and when 24 PAHs were summed, 2010 SWAT mean concentrations ranged from 25% (Wadsworth Cove, Castine) to 36% (Crockett Point, Rockland) of total PAHs (74) across the three SWAT mussel sites.

The mean concentrations for the sum of 24 PAHs ranged from a low mean concentration of 73 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 641ng/g dry wt. at Crockett Point, Rockland (Figure 1.3.2.1.3). Figure 1.3.2.1.4 presents the sum of 24 PAHs across the SWAT blue mussel sites sampled in 2010, and compares these results with Gulfwatch 2008 median and 85th percentile results. Of the three SWAT sites tested in 2010, Crockett Point, Rockland, and Spring Point, South Portland, are the two sites that exceeded the Gulfwatch 2008 median of 198 ng/g (dry weight) for 24 summed PAHs. Only one site, Crockett Point, Rockland, also exceeded the Gulfwatch 85th percentile of 476 ng/g (dry weight) for 24 summed PAHs, though Spring Point, South Portland was essentially the same as the Gulfwatch 85th percentile. Wadsworth Cove, Castine, was well below the Gulfwatch median concentration of 198 ng/g (dry weight) for 24 summed PAHs. Despite the use of 23 summed PAHs (SWAT) to compare to 24 summer PAHs utilized in the Gulfwatch program, the summation of these PAHs is useful for putting Maine data into a regional, Gulf of Maine context.

Figure 1.3.2.1.4 also compares the sum of 24 PAHs at the 2010 SWAT sites to recent NS&T median and 85th percentile for 24 summed PAHs (2008 data, the most recent available). Of the three SWAT sites tested in 2010, Crockett Point, Rockland, and Spring Point, South Portland, exceeded the NS&T national 2008 median of 247 ng/g (dry weight) for 24 summed PAHs. None of the 2010 SWAT sites approached or exceeded the NS&T national 85th percentile of 1,216 ng/g (dry weight) for 24 summed PAHs.

Figure 1.3.2.1.2: Sum of 19 PAHs in 2010 SWAT Blue Mussels



Dashed lines = 2008 Gulfwatch Median and 85th Percentile (Sum 19 PAHs); Solid lines = National Status and Trends Median and 85th Percentile (Sum 19 PAHs).

Figure 1.3.2.1.3: Sum of 24 PAHs and Sum of Total PAHs at 2010 SWAT Blue Mussel Sites

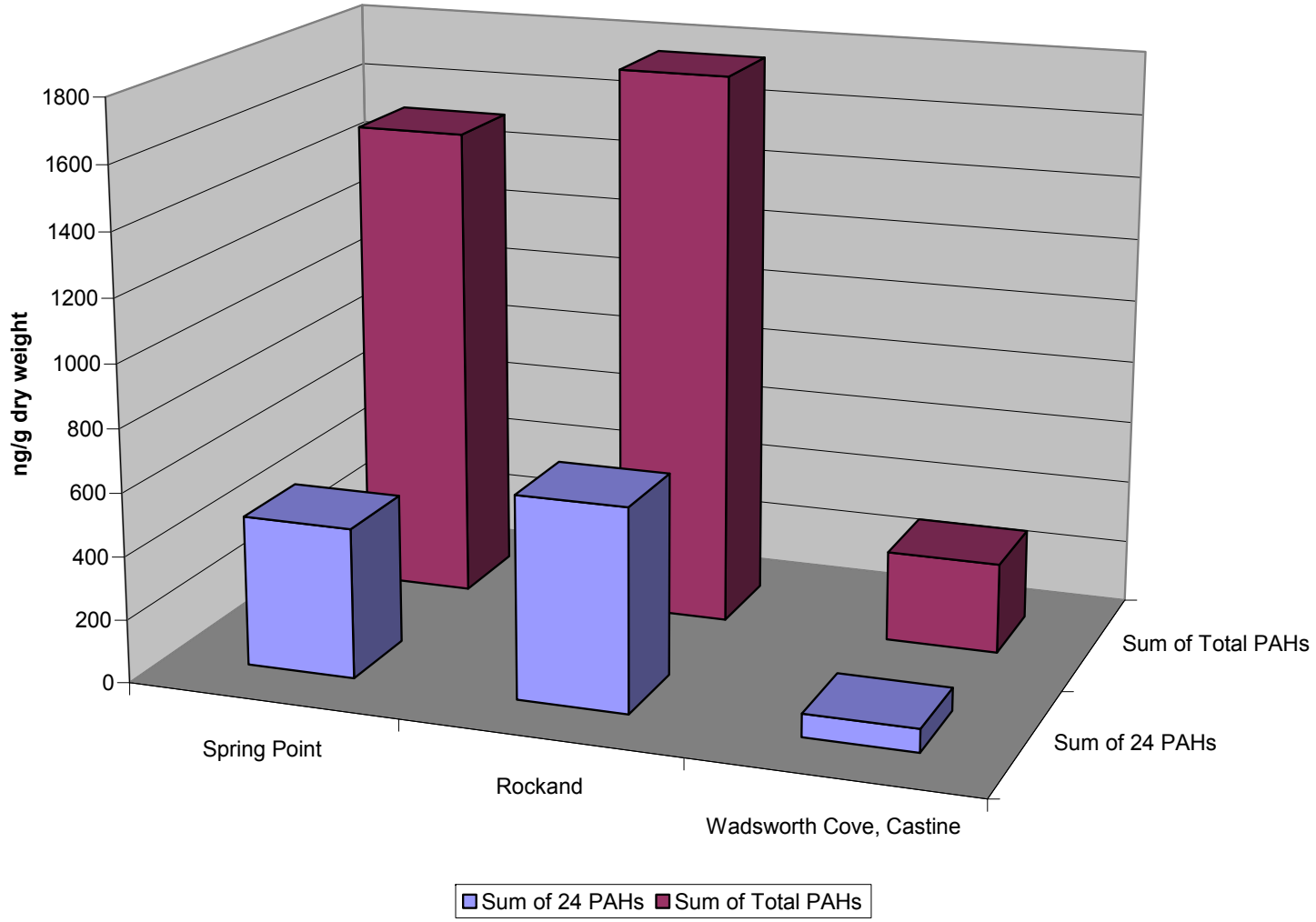
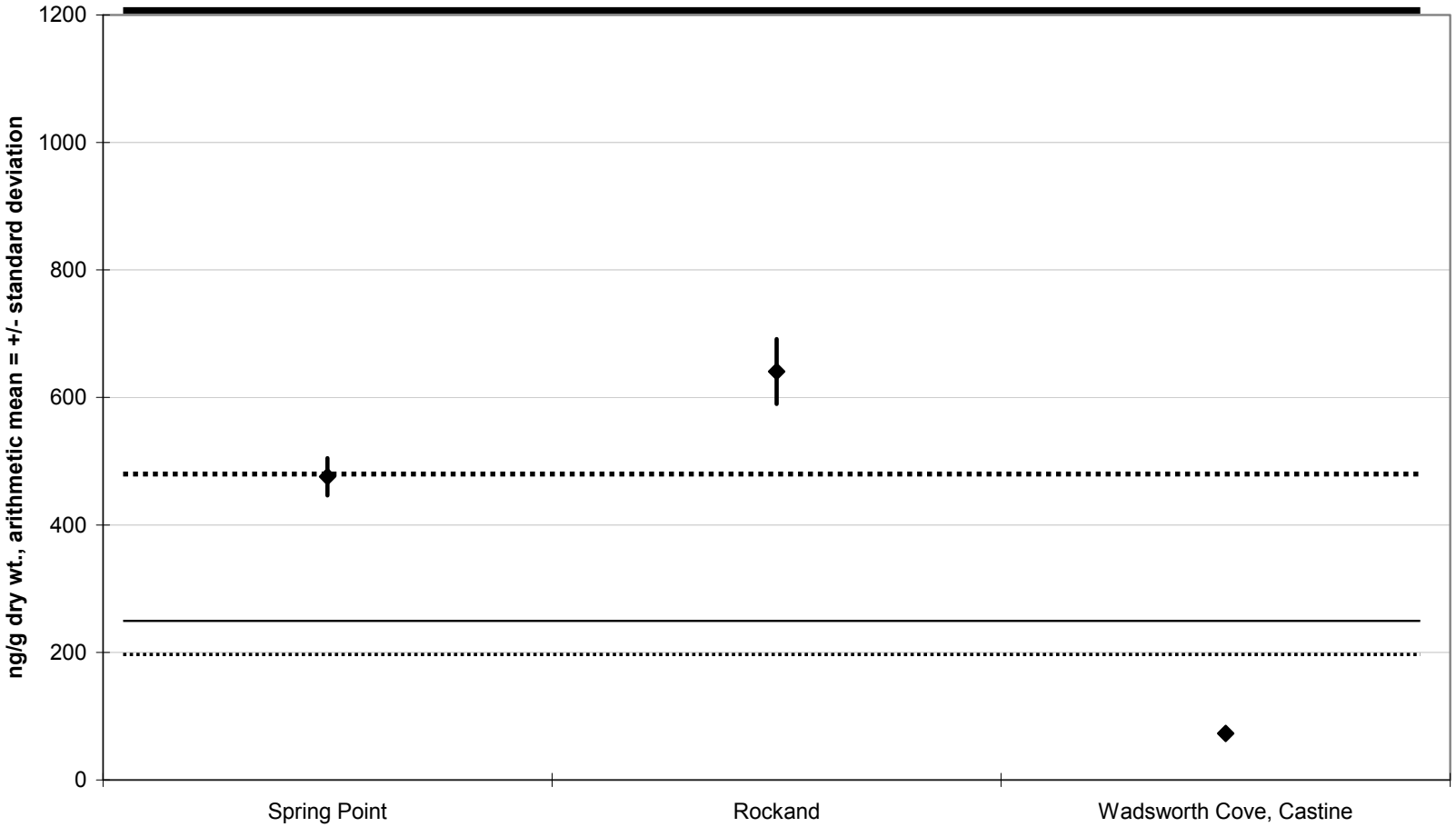


Figure 1.3.2.1.4: Sum of 24 PAHs in 2010 SWAT Blue Mussels



Dashed line = 2008 National Status and Trends Median (Sum 24 PAHs); Solid line = 2008 National Status and Trends 85th Percentile (Sum 24 PAHs).

Figure 1.3.2.1.5 shows the summation of 40 PAHs compared to the summation of all 74 PAHs at the three blue mussel sites sampled by SWAT in 2010. Both the 40 summed PAHs and the total PAHs vary in a similar manner between sites, but through viewing the figure it is clear that the sum of the 40 PAHs makes up the bulk of the total PAHs found at each site. The sum of 40 PAHs varied from 76% (Wadsworth Cove, Castine) to 81% (Crockett Point, Rockland) of total PAHs (74) across the three SWAT sites. The mean concentrations for the sum of 40 PAHs ranged from a low mean concentration of 217 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 1,417 ng/g dry wt. at Crockett Point, Rockland (Figure 1.3.2.1.5).

Figure 1.3.2.1.6 presents the sum of 40 PAHs across the SWAT blue mussel sites sampled in 2010, and compares these results with Gulfwatch 2008 median and 85th percentile results. Of the three SWAT sites tested in 2010, two exceeded the Gulfwatch 2008 median of 260 ng/g (dry weight) for 40 summed PAHs. Two sites also exceeded the Gulfwatch 85th percentile of 618 ng/g (dry weight) for 40 summed PAHs. The differences between the SWAT list of PAHs and the Gulfwatch list of PAHs available for the sum of 40 PAHs may be part of the reason why the SWAT sum of 40 PAHs is comparably high to the Gulfwatch sum of 40 PAHs. As noted in Table 1.3.2.1.1, SWAT utilizes C1 through C4-Benzo[A]Anthracenes/Chrysenes, where Gulfwatch utilizes C1 through C4-Chrysenes. Similarly, SWAT utilizes C1 through C4-Phananthrenes/Anthracenes, where Gulfwatch utilizes C1 through C4-Phananthrenes. It is likely that the additional summations of C1 through C4-Benzo[A]Anthracenes plus C1 through C4-Anthracenes included in the SWAT data are pushing the SWAT sum of 40 PAHs higher than the exact Gulfwatch equivalents. This result cannot be avoided due to the composition of the SWAT data, but should be noted when viewing the comparison in Figure 1.3.2.1.6.

Figure 1.3.2.1.6 also compares the sum of 40 PAHs at the 2010 SWAT sites to recent NS&T median and 85th percentile for 40 summed PAHs (2008 data, the most recent available). Of the three SWAT sites tested in 2010, two sites (Crockett Point, Rockland, and Spring Point, South Portland), exceeded the NS&T national 2008 median of 353 ng/g (dry weight) for 40 summed PAHs. None of the three sites exceeded the NS&T national 85th percentile of 1,674 ng/g (dry weight) for 40 summed PAHs.

The differences between the SWAT list of PAHs and the NS&T list of PAHs available for the sum of 40 PAHs may contribute significantly to the relatively high concentrations apparent in two of the SWAT sites when compared to the NS&T (same as Gulfwatch) sum of 40 PAHs. These differences are explored in depth in the preceding paragraph. This result cannot be avoided due to the composition of the SWAT data, but should be noted when viewing the comparison in Figure 1.3.2.1.6.

Figure 1.3.2.1.5: Sum of 40 PAHs and Total PAHs at 2010 SWAT Blue Mussel Sites

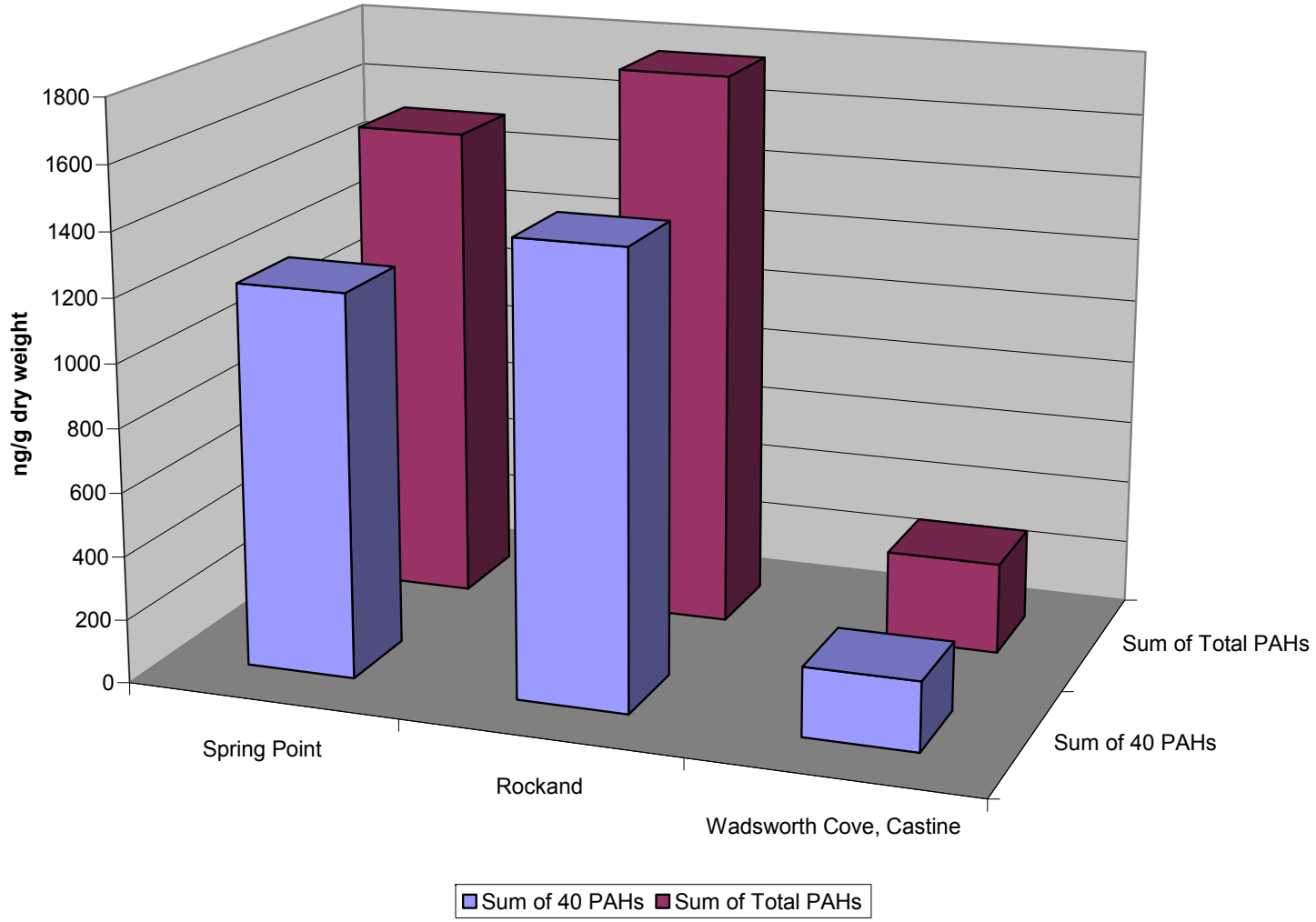
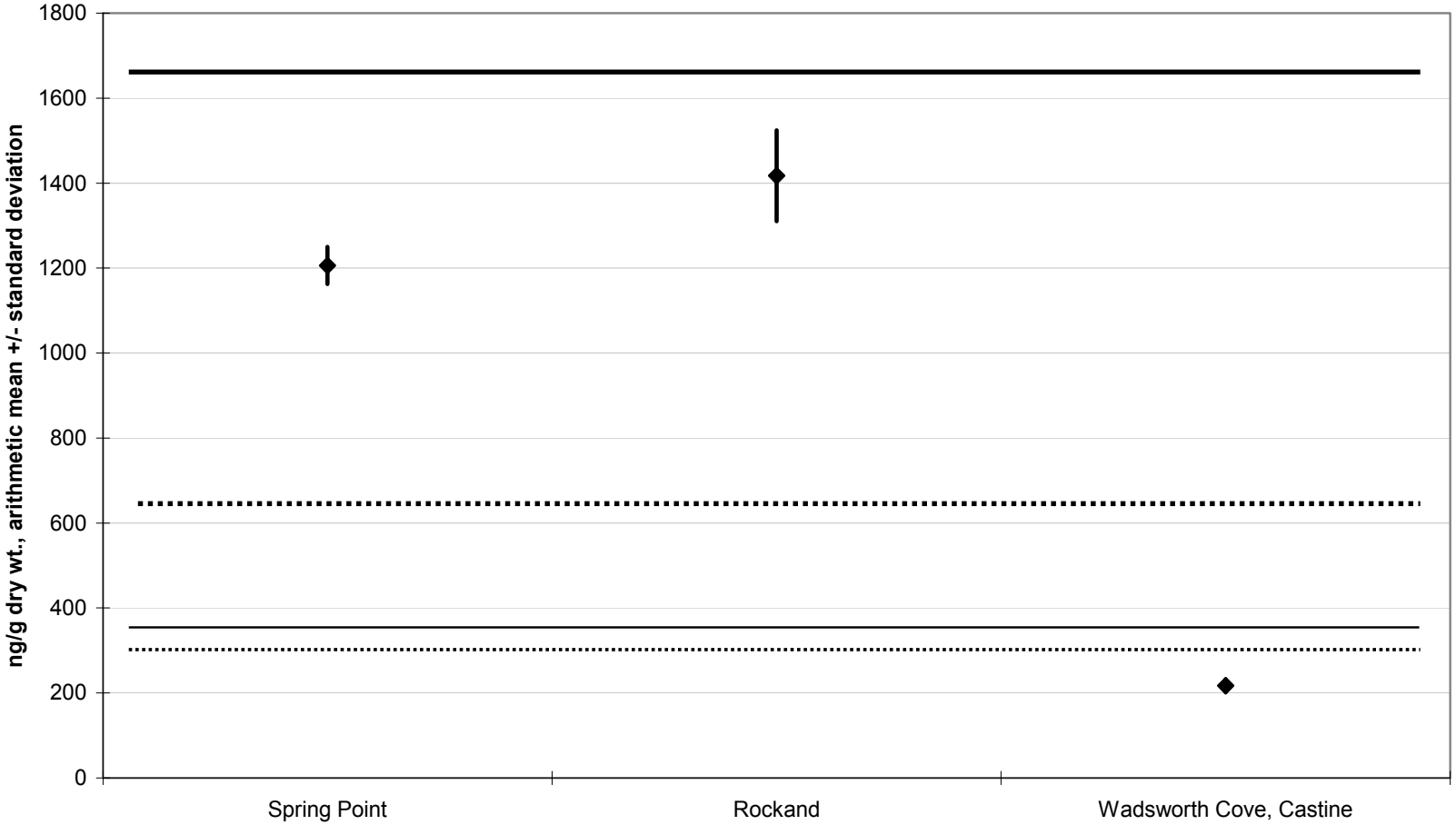


Figure 1.3.2.1.6: Sum of 40 PAHs in 2010 SWAT Blue Mussels



Dashed lines = 2008 Gulfwatch Median and 85th Percentile (Sum 40 PAHs); Solid lines = National Status and Trends Median and 85th Percentile (Sum 40 PAHs).

For 2010 SWAT blue mussel sites, Figure 1.3.2.1.7 presents a graphic representation of selected PAHs expressed as a ratio. The equation used to derive the ratio is:

Fluoranthene + Pyrene/Σ(Flouranthene + Pyrene + C2-C4 Alkylphenanthrene)

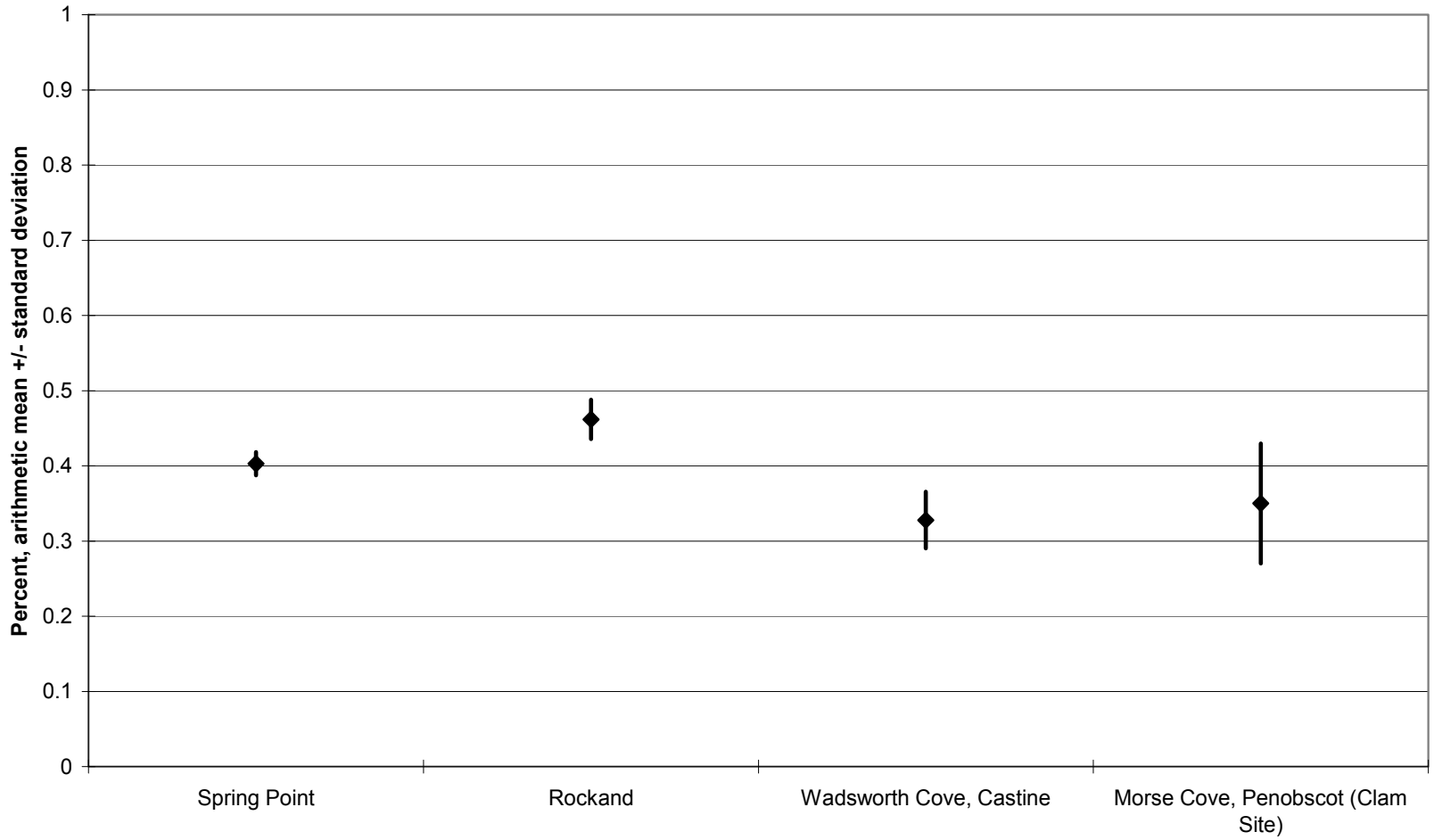
This equation is utilized to show relative concentrations of non-alkylated to alkylated PAHs, which yields a ratio indicating that values <0.1 are interpreted as a petrogenic (unburned fuel or petroleum) source, while values >0.2 are interpreted as a pyrogenic (combusted fuel) source of PAHs.

Of the three SWAT blue mussel sites tested in 2010, Wadsworth Cove, Castine had the lowest ratio calculated, 0.33. Even this lowest ratio site did not fall below the <0.1 mark, which would indicate a petrogenic source of PAHs. It is of interest to note the proximity of the Spring Point, South Portland site to the oil terminal for the pipeline located just north of the sampling station. Despite this proximity to nearly daily tanker unloading, PAHs sources here appear to be fairly strongly pyrogenic and may be attributed to the urbanized upland area (Portland and South Portland, with associated impervious surfaces and combusted hydrocarbon runoff) or to ship and boat emissions. Wadsworth Cove, Castine, with its lower ratio of 0.33, may be somewhat less exposed to sources of pyrogenic PAHs, being geographically removed from larger urban areas.

PAHs occur in elevated concentrations near petroleum manufacturing, creosote use, and wood burning (Kimbrough, 2008). Though there are natural sources, including forest fires and volcanoes, anthropogenic sources, including automobile emissions, home heating, and coal fired power plants, contribute to elevated levels of PAHs. As their name implies, polycyclic aromatic hydrocarbons are made of fused benzene rings, fusion of which may occur during combustion. However, they also occur in coal and oil. PAHs in the environment are primarily from forest fires, coal fired power plants, automobile exhaust, and spilled oil (Kimbrough, 2008).

Toxicities of PAHs vary, with hundreds of compounds making up the pool of PAHs. Toxic responses in aquatic organisms may include reproduction inhibition, mutations, liver abnormalities, and even mortality. Exposure in the marine environment may be from spilled oil, boat exhaust, and runoff from urban areas. From a human health perspective, neither MCDC nor FDA have reported recommended safety levels for PAHs in fish or fish products (Kimbrough, 2008).

Figure 1.3.2.1.7: Flu+Pyr/Sum(FP C2-C4-P) in SWAT 2010 Blue Mussels and Softshell Clams



0 = Petroleum, 1 = Pyrogenic; Generally Interpreted as >.2 = Pyrogenic, <.1 = Petroleum

1.3.2.2. Softshell Clams

Results were compared to national (NOAA National Status & Trends, see Kimbrough, 2008) shellfish data and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) softshell clam data (when available) in an effort to place Maine SWAT data in a national and regional context.

Differences in individual PAHs obtained from different laboratories and different years are described in depth in the previous section 1.3.2.1, PAHs in Blue Mussels. The same approach was utilized to develop lists of PAHs in clam tissues presented in this section. Comparisons were made to NS&T and Gulfwatch programs when data sets were available and to place Maine SWAT data in wider geographic context.

Table 1.3.2.1.1, "Analyzed PAHs and PAH Summation Calculations" which also was presented in the previous section 1.3.2.1, shows comparisons between Gulfwatch/NS&T summation lists and SWAT summation lists, and details differences between the lists with footnotes and notes in the right column of the table. It details the PAHs included in summations and includes a complete list of all PAHs for which results were obtained in the different years sampled.

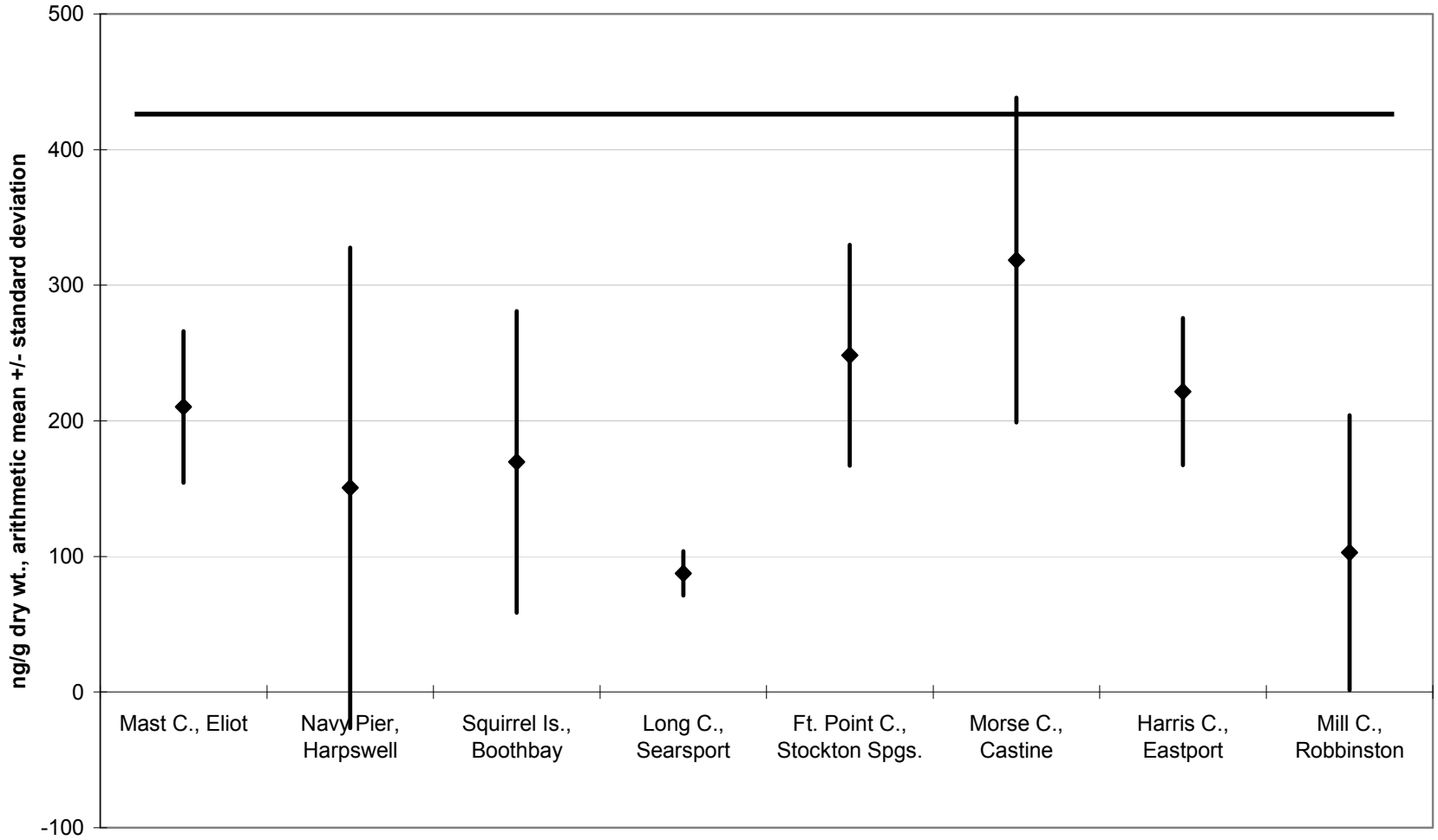
Figure 1.3.2.2.1 shows the summation of the 19 non-alkylated PAHs at the eight SWAT clam sites. Sum of 19 non-alkylated PAHs ranged from a low mean concentration of 88 ng/g dry wt. at Long Cove, Searsport, to a high mean concentration of 319 ng/g dry wt. at Morse Cove, Castine. No SWAT clam sites exceeded the 2008 Gulfwatch mean concentration for the sum of 19 non-alkylated PAHs, which was calculated for four sites (two in NH and two in ME).

Due to the lesser number of PAHs for which lab analysis was conducted in 2004-05, no summations for 24 or 40 PAHs are available for clam tissues collected in these years. Due to the larger number of PAHs from lab analysis in 2010, all summations can be constructed for Morse Cove, Castine, which was sampled in 2010. Figure 1.3.2.2.2 includes summations for 19 non-alkylated PAHs, as well as summations of 24, 40, and total PAHs. The sum of 40 PAHs concentration in Morse Cove clam tissue exceeded the 2008 Gulfwatch median (four sites, two in NH and two in ME), though the summations of 19 and 24 PAHs did not exceed the mean. This may indicate a component of alkylated PAHs at Morse Cove that is contributing to the higher summation concentration as more alkylated PAHs are included in broader summations. No summation of total PAHs is available for Gulfwatch data, so no mean can be calculated to present in Figure 1.3.2.2.2.

Only PAH results from Morse Cove, Castine (2010), included the PAHs necessary to calculate the ratio used previously to explore non-alkylated to alkylated PAHs. Sites sampled in 2004-05 were not analyzed for all necessary PAHs to complete this ratio calculation. The equation used to derive the ratio is:

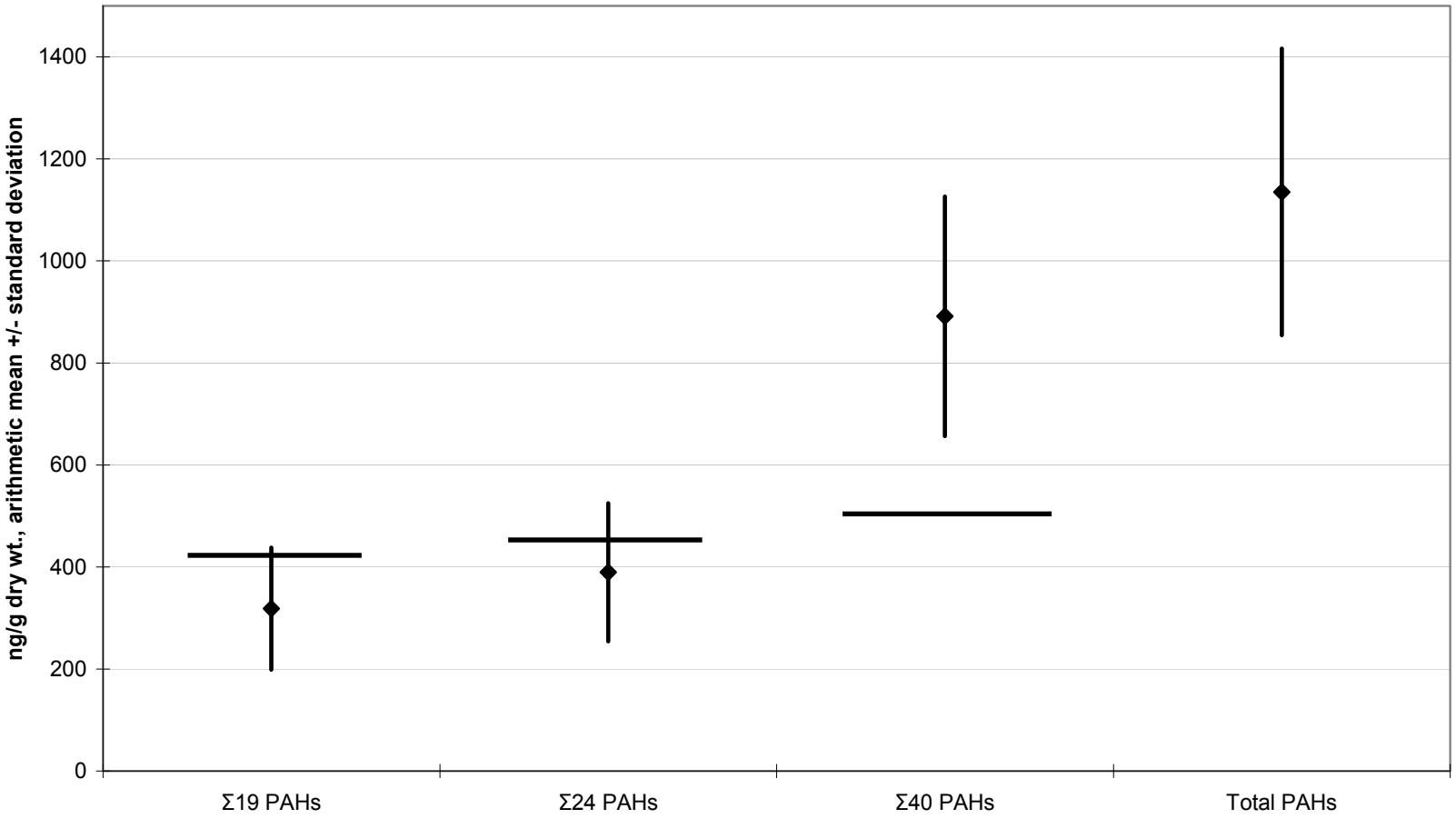
Fluoranthene + Pyrene/Σ(Flouranthene + Pyrene + C2-C4 Alkylphenanthrene)

Figure 1.3.2.2.1: Sum of 19 PAHs in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

Figure 1.3.2.2.2: PAHs in Morse Cove, Penobscot/Castine, Softshell Clams



Solid lines = Gulfwatch 2008 Means for Σ19 PAHs, Σ24 PAHs, and Σ40 PAHs (four Softshell Clam Sites in NH, ME; no total PAH mean is available for Gulfwatch)

This equation is utilized to show relative concentrations of non-alkylated to alkylated PAHs, which yields a ratio indicating that values <0.1 are interpreted as a petrogenic (unburned fuel or petroleum) source, while values >0.2 are interpreted as a pyrogenic (combusted fuel) source of PAHs.

Since only Morse Cove, Castine, had the necessary PAH data to calculate the ratio, it has been included in Figure 1.3.2.1.7, which also depicts the calculated ratios for the blue mussel sites sampled in 2010 and is in the previous section of the report, section 1.3.2.1. Morse Cove appears to have a predominantly pyrogenic PAH signature, scoring between 0.3 and 0.4 in Figure 1.3.2.1.7.

PAHs occur in elevated concentrations near petroleum manufacturing, creosote use, and wood burning (Kimbrough, 2008). Though there are natural sources, including forest fires and volcanoes, anthropogenic sources, including automobile emissions, home heating, and coal fired power plants, contribute to elevated levels of PAHs. As their name implies, polycyclic aromatic hydrocarbons are made of fused benzene rings, fusion of which may occur during combustion. However, they also occur in coal and oil. PAHs in the environment are primarily from forest fires, coal fired power plants, automobile exhaust, and spilled oil (Kimbrough, 2008).

Toxicities of PAHs vary, with hundreds of compounds making up the pool of PAHs. Toxic responses in aquatic organisms may include reproduction inhibition, mutations, liver abnormalities, and even mortality. Exposure in the marine environment may be from spilled oil, boat exhaust, and runoff from urban areas. From a human health perspective, neither MCDC nor FDA have reported recommended safety levels for PAHs in fish or fish products (Kimbrough, 2008).

1.3.2.3. American Lobster

Summations of 19 and total PAHs are described in depth in Section 1.3.2.1, PAHs in Blue Mussels. The same approach was utilized to develop lists of PAHs in lobster tissues presented in this section. Table 1.3.2.1.1, "Analyzed PAHs and PAH Summation Calculations" which also was presented in the previous section 1.3.2.1, shows SWAT PAH summation lists and includes a complete list of all PAHs for which results were obtained.

Figure 1.3.2.3.1 shows the summation of 19 non-alkylated PAHs compared to total PAHs in lobster muscle tissue at the 19 SWAT lobster stations sampled in 2010. Sum of 19 non-alkylated PAHs ranged from a low mean concentration of 12 ng/g dry wt. at Pleasant Bay to a high mean concentration of 121 ng/g dry wt. at Luckse Sound, Casco Bay. Total PAHs ranged from a low mean concentration of 85 ng/g dry wt. at Great Wass Island, Western Bay, to a high mean concentration of 402 ng/g dry wt. at Eastport, Cobscook Bay.

Figure 1.3.2.3.1 also demonstrates the small percentage of 74 total PAHs comprised by the Sum of 19 non-alkylated PAHs. Luckse Sound, Casco Bay, appears to exhibit a somewhat higher percentage of non-alkylated PAHs than many of the other sites. This may indicate more petrogenic sources of PAHs near the site, which is just outside Portland Harbor.

Figure 1.3.2.3.2 shows the summation of 19 non-alkylated PAHs compared to total PAHs in lobster hepatopancreas at the 19 SWAT lobster stations sampled in 2010. Sum of 19 non-alkylated PAHs ranged from a low mean concentration of 64 ng/g dry wt. at Flye Island, Blue Hill Bay, to a high

mean concentration of 1,447 ng/g dry wt. at Luckse Sound, Casco Bay. Total PAHs ranged from a low mean concentration of 317 ng/g dry wt. at Pleasant Bay to a high mean concentration of 4,021 ng/g dry wt. at Luckse Sound, Casco Bay. Figure 1.3.2.3.2 also shows the higher percentage of non-alkylated PAHs present in lobster tissues in Luckse Sound, Casco Bay.

Figure 1.3.2.3.3 compares the sum of 19 non-alkylated PAHs in both lobster muscle and hepatopancreas tissues. The sum of 19 PAHs averages 7 times higher in hepatopancreas tissue than in muscle tissue, with the difference varying from 4 to 12 times higher in hepatopancreas at different stations.

Figure 1.3.2.3.4 compares total PAHs in both lobster muscle and hepatopancreas tissues. Total PAHs average 5 times higher in hepatopancreas tissue than in muscle tissue, with the difference varying fom 3 to 10 times higher in hepatopancreas at different stations. Both figures demonstrate the partitioning of PAHs into the hepatopancreas, which serves as the lobster's liver and pancreas and sequesters organic contaminants within the lobster. It has a high lipid content, which contributes to its high PAH content since PAHs (as organic contaminants) are lipophilic.

Lobster tissue PAH data was used to calculate the ratio used previously to explore the relationship between non-alkylated and alkylated PAHs. All 19 lobster stations were included since the necessary PAHs were available to complete this ratio calculation. The equation used to derive the ratio is:

Fluoranthene + Pyrene/Σ(Flouranthene + Pyrene + C2-C4 Alkylphenanthrene)

This equation is utilized to show relative concentrations of non-alkylated to alkylated PAHs, which yields a ratio indicating that values <0.1 are interpreted as a petrogenic (unburned fuel or petroleum) source, while values >0.2 are interpreted as a pyrogenic (combusted fuel) source of PAHs.

Figure 1.3.2.3.1: Sum of 19 PAHs and Total PAHs in Lobster Muscle

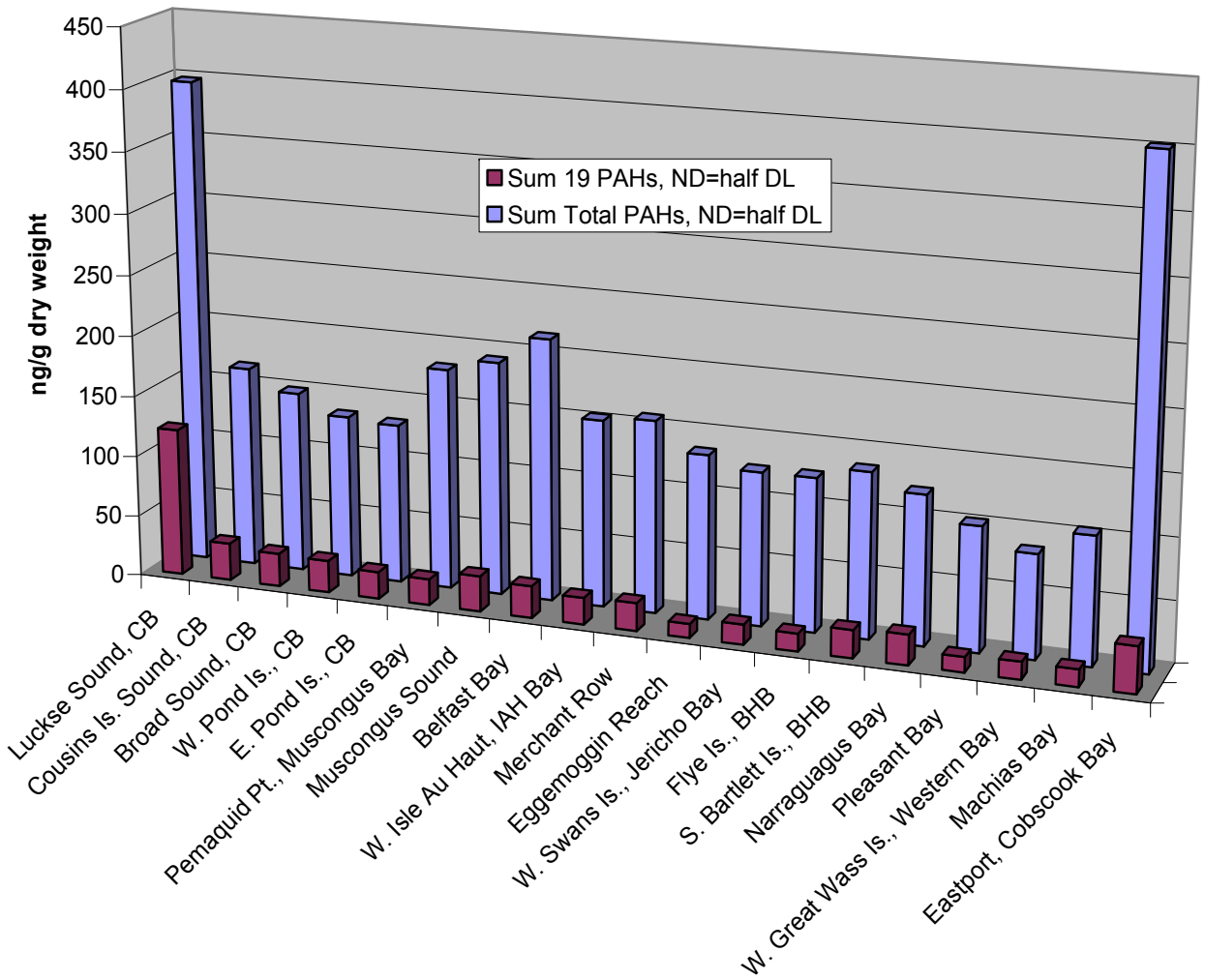


Figure 1.3.2.3.2: Sum of 19 PAHs and Total PAHs in SWAT Lobster Hepatopancreas

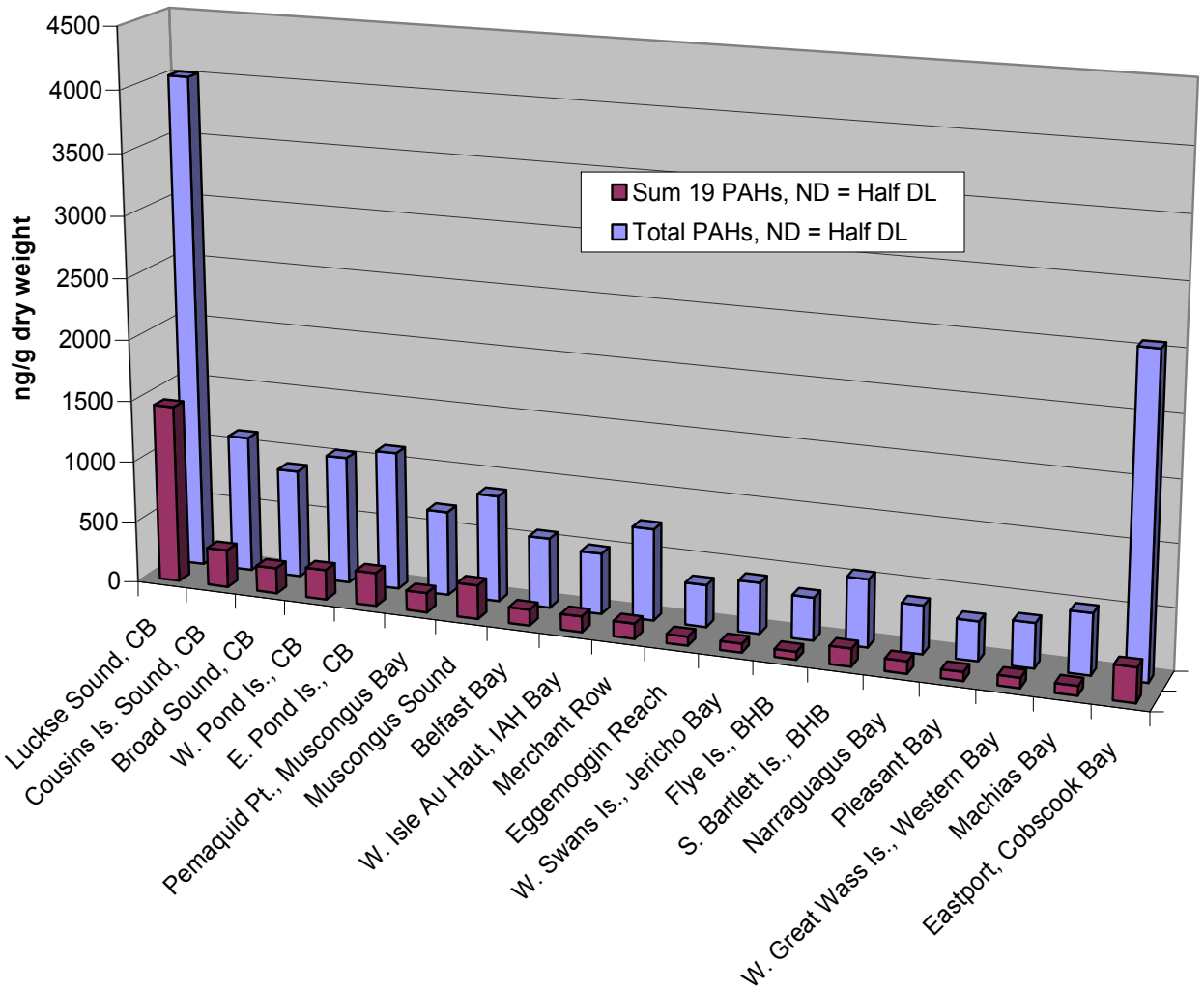


Figure 1.3.2.3.3: Sum of 19 PAHs in SWAT Lobster Muscle and Hepatopancreas

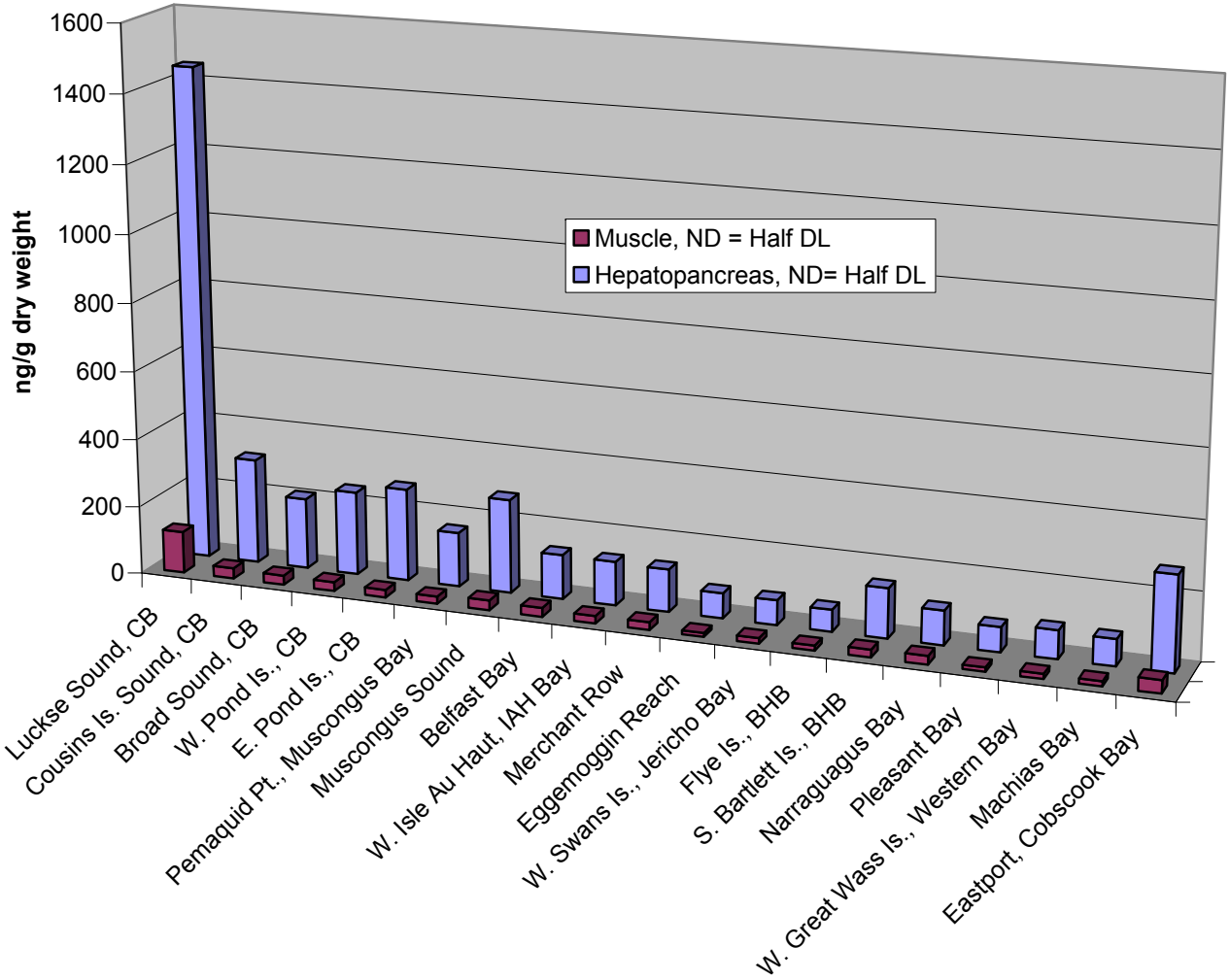


Figure 1.3.2.3.4: Sum of Total PAHs in SWAT Lobster Muscle and Hepatopancreas

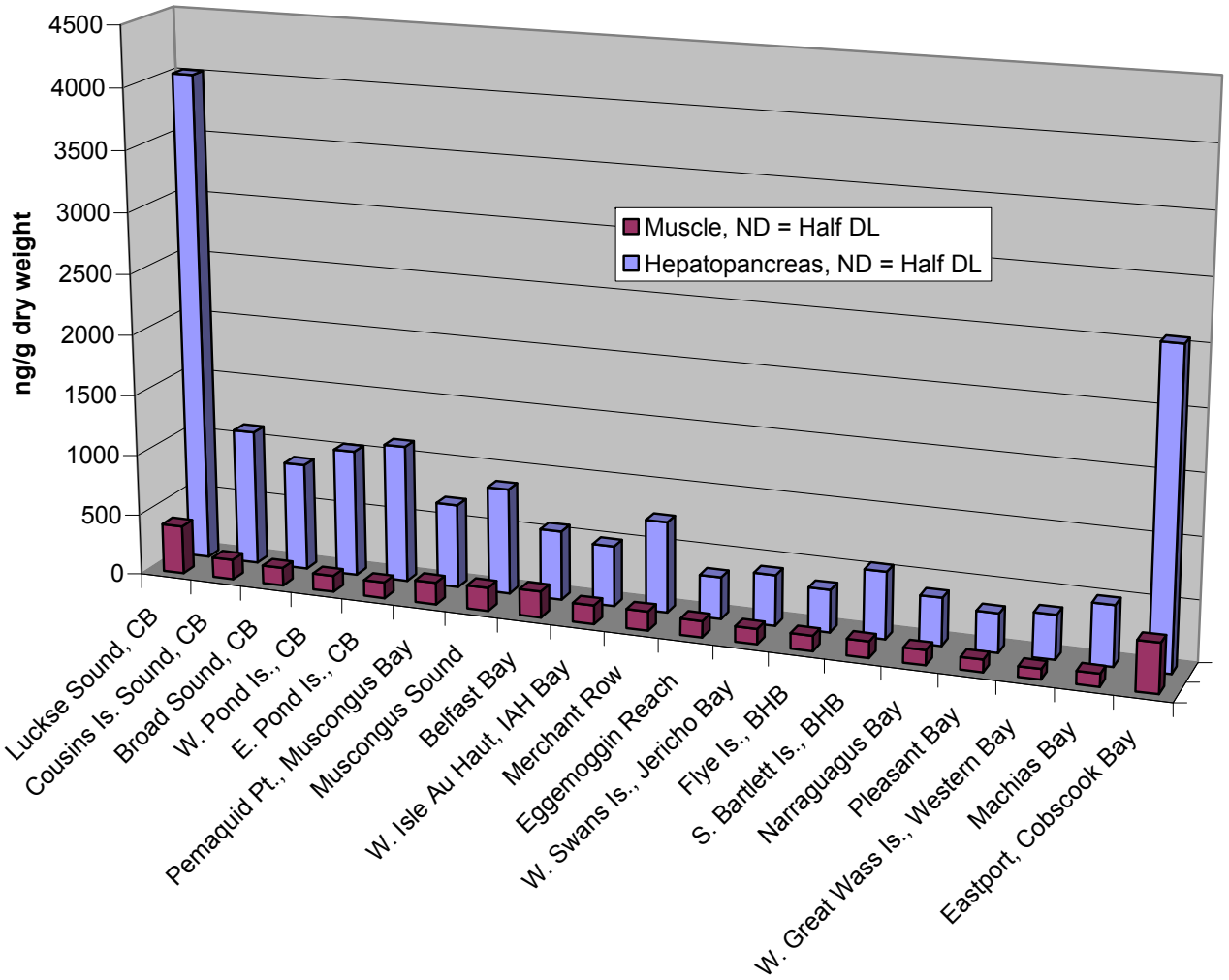


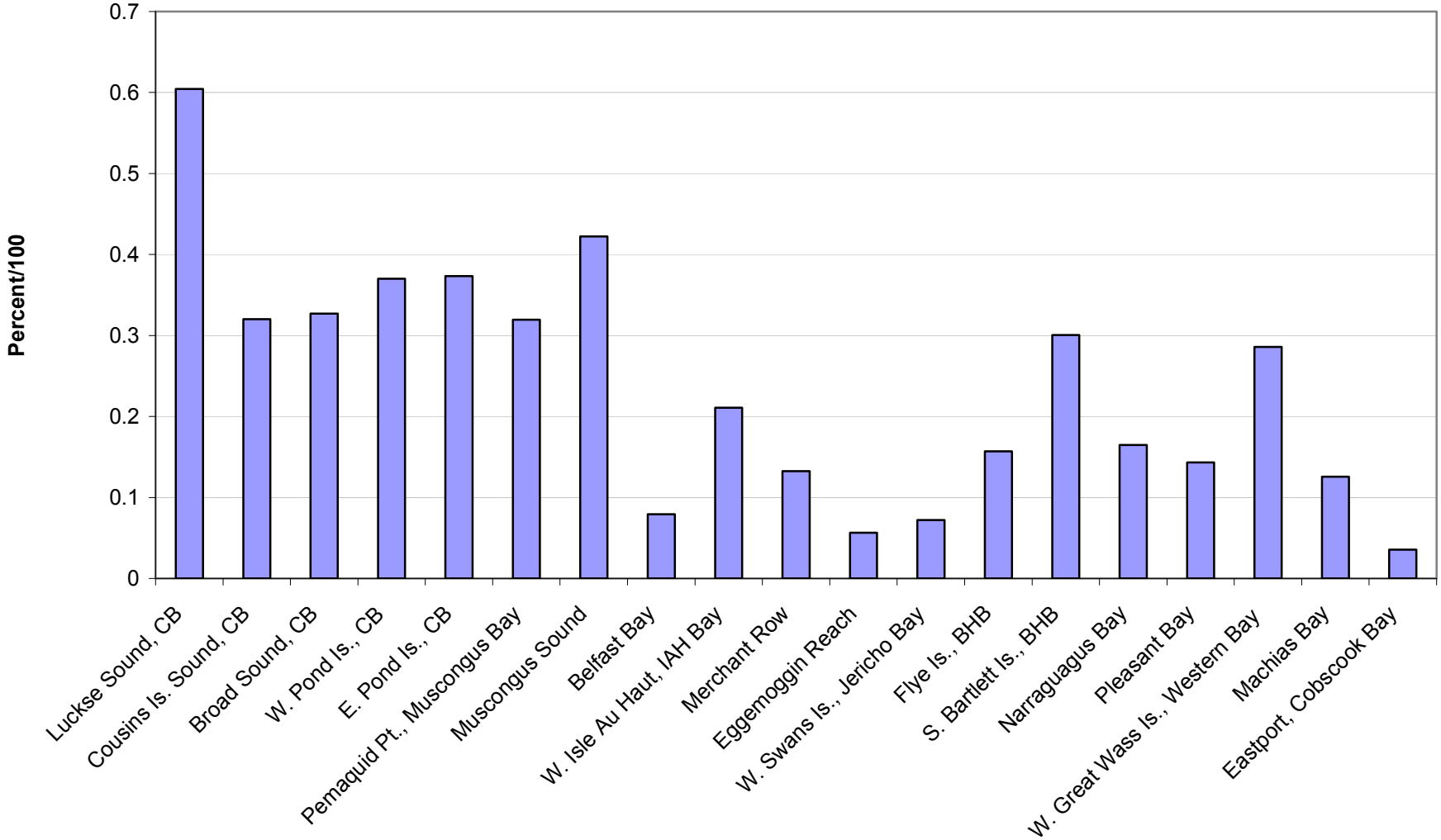
Figure 1.3.2.3.5 depicts the calculated ratios for lobster muscle tissue. Belfast Bay; Eggemoggin Reach; West Swans Island, Jericho Bay; and Eastport all show a ratio of less than 0.1, and appear to have a predominantly petrogenic PAH signal. Nine stations had ratios above 0.2, indicating a primarily pyrogenic PAH signal, including all five Casco Bay sites. Luckse Sound had the highest ratio at 0.6. It is of interest to note the proximity of the Luckse Sound station to the tanker traffic proceeding to the oil terminal for the pipeline located in Portland Harbor. Despite this proximity to nearly daily tanker traffic, PAH sources here appear to be dominated by pyrogenic sources and may be attributed to the urbanized upland area (Portland and South Portland, with associated impervious surfaces and combusted hydrocarbon runoff) or to ship and boat emissions. The four stations with ratios below 0.1 may be somewhat less exposed to sources of pyrogenic PAHs, being geographically removed from larger urban areas.

Figure 1.3.2.3.6 shows the calculated ratios for lobster hepatopancreas tissue. Only West Swans Island, Jericho Bay, had a ratio below 0.2. All other stations exhibit a ratio suggesting more pyrogenic sources of PAHs. This is a different pattern than exhibited by the muscle tissue, and may indicate sequestration of alkylated PAHs by the hepatopancreas tissue at many stations where muscle meat shows less alkylated PAHs as expressed in this ratio calculation.

PAHs occur in elevated concentrations near petroleum manufacturing, creosote use, and wood burning (Kimbrough, 2008). Though there are natural sources, including forest fires and volcanoes, anthropogenic sources, including automobile emissions, home heating, and coal fired power plants, contribute to elevated levels of PAHs. As their name implies, polycyclic aromatic hydrocarbons are made of fused benzene rings, fusion of which may occur during combustion. However, they also occur in coal and oil. PAHs in the environment are primarily from forest fires, coal fired power plants, automobile exhaust, and spilled oil (Kimbrough, 2008).

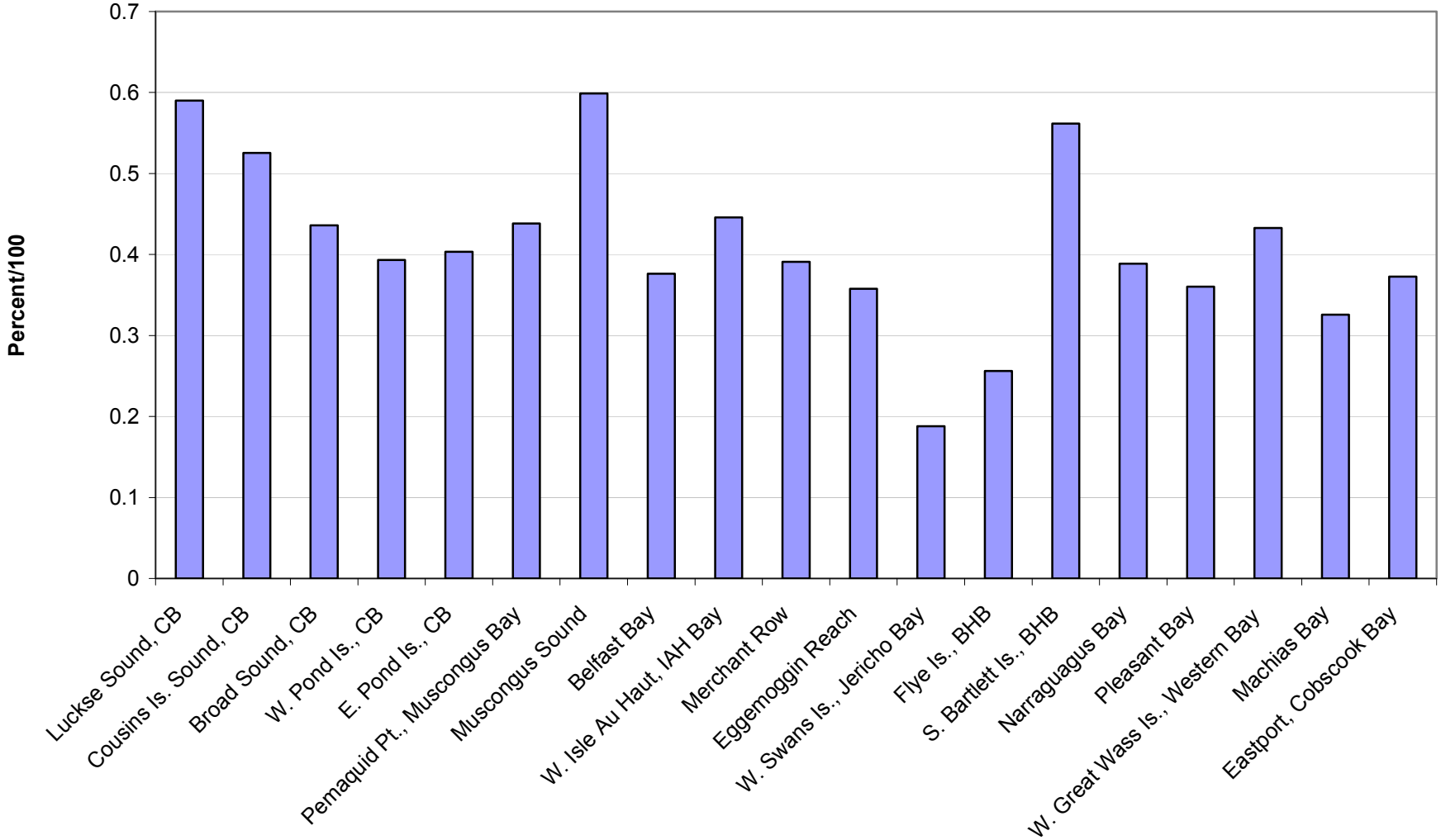
Toxicities of PAHs vary, with hundreds of compounds making up the pool of PAHs. Toxic responses in aquatic organisms may include reproduction inhibition, mutations, liver abnormalities, and even mortality. Exposure in the marine environment may be from spilled oil, boat exhaust, and runoff from urban areas. From a human health perspective, neither MCDC nor FDA have reported recommended safety levels for PAHs in fish or fish products (Kimbrough, 2008).

Figure 1.3.2.3.5: Flu+Pyr/Sum(FP C2-C4-P) in SWAT Lobster Muscle



0 = Petroleum, 1 = Pyrogenic; Generally Interpreted as >.2 = Pyrogenic, <.1 = Petroleum.

Figure 1.3.2.3.6: Flu+Pyr/Sum(FP C2-C4-P) in SWAT Lobster Hepatopancreas



0 = Petroleum, 1 = Pyrogenic; Generally Interpreted as >.2 = Pyrogenic, <.1 = Petroleum.

1.3.3 PCBs

1.3.3.1 Blue Mussels

Blue mussels were tested for PCBs from all three sites where mussels were collected in 2010 and were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Mussel tissue samples were analyzed for 209 PCBs using EPA Method 1668A. Results were compared to national (NOAA National Status & Trends, see Kimbrough, 2008) and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) blue mussel monitoring program data (when available) in an effort to place Maine SWAT data in a national and regional context.

The NS&T and Gulfwatch programs utilize a subset of PCBs, summing scores from 24 peaks on the gas chromatograph (GC) trace. Due to the fact that some PCB congeners co-elute (meaning they are collected together and not separated during the detection/quantitation process), summing these 24 GC peaks actually represents 31 PCB congeners since 7 of the 24 selected peaks actually contain two congeners each. These 31 summed PCB congeners will be called "Gulfwatch PCBs" or "NS&T PCBs" for the purposes of this report. This report utilizes the Maine SWAT blue mussel tissue PCB data generated by AXYS Analytical, which includes all 209 PCB congeners, some of which co-elute and are represented as combinations of PCB congeners. To compare Maine results to the NS&T and Gulfwatch PCBs, this report sums 35 congeners in the Maine SWAT PCB data, with the SWAT 35 congener list including 27 of 31 PCB congeners on the NS&T/Gulfwatch list, while including an additional 6 congeners that are not on the NS&T/Gulfwatch list. This difference is due to the co-elution issue, since some congeners are co-eluting differently or are summed together differently at the various laboratories used. These 35 summed congeners will be called "SWAT PCBs" for the purposes of this report.

Table 1.3.3.1.1 shows the list of PCB congeners used by NS&T and Gulfwatch compared to the list of PCB congeners reported by SWAT for comparison to the NS&T and Gulfwatch data. Double numbers in the table represent co-elution or congeners that are quantified together within peaks on the GC output trace. Though the SWAT PCB and NS&T/Gulfwatch PCB congeners included in the summed lists are not completely identical, they are as close a comparison as possible. With some caution in data interpretation, this comparison may be used to place Maine SWAT blue mussel tissue PCB concentrations in a Gulf of Maine-wide and national perspective.

To compare what proportion of the total PCBs (209 congeners) the SWAT PCBs represent, Figure 1.3.3.1.1 shows both the total PCBs next to the SWAT PCBs list used for comparison to other data sets like Gulfwatch and NS&T Musselwatch.Comparing the three mussel sites sampled in 2010, the SWAT PCBs ranged from 36% to 39% of the total PCBs. The close relationship between total PCBs and the SWAT PCBs subset for 2010 can easily be noted in Figure 1.3.3.1.1.Total PCB concentrations ranged from a low mean concentration of 25.6 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 98.1 ng/g dry wt. at Crockett Point, Rockland (Figure 1.3.3.1.1). Spring Point, South Portland, had a concentration of total PCBs of 70 ng/g dry wt. (Figure 1.3.3.1.1).

Figure 1.3.3.1.2 compares the SWAT PCBs at the 2010 SWAT mussel sites to recent Gulfwatch median and 85th percentile for Gulfwatch PCBs (2008 data, the most recent available). Of the three SWAT sites, Crockett Point, Rockland, and Spring Point, South Portland, exceeded the Gulfwatch

2008 median of 24.1 ng/g (dry weight) for Gulfwatch PCBs. None of the three sites tested in 2010 exceeded the Gulfwatch 85th percentile of 35.4 ng/g (dry weight) for Gulfwatch PCBs, though Crockett Point, Rockland, was comparable to the Gulfwatch 85th percentile with a concentration of 35.2 ng/g dry wt. Wadsworth Cove, Castine, had a SWAT PCB concentration below the Gulfwatch PCB 2008 median. As noted above, comparison of 35 summed congeners from SWAT PCBs to 31 summed congeners from Gulfwatch PCBs is as close a comparison as possible due to differences in some PCBs co-eluting in different GC traces across laboratories. Despite these differences, the summation of 35 SWAT congeners is useful for putting Maine data into a regional, Gulf of Maine context.

Figure 1.3.3.1.2 also compares the SWAT PCBs at the 2010 SWAT sites to recent NS&T (NS&T) median and 85th percentile for NS&T PCBs (2008 data, the most recent available). Of the three SWAT sites, only Crockett Point, Rockland, exceeded the NS&T 2008 national median, 29.2 ng/g (dry weight), for NS&T PCBs. However, Crockett Point and Spring Point, South Portland, were very close to the NS&T national median. No 2010 SWAT mussel sites approached or exceeded the NS&T national 85th percentile, 141 ng/g (dry weight), for NS&T PCBs. The 2008 NS&T national 85th percentile was approximately 4 X higher than the highest scoring PCB site tested by SWAT in Maine in 2010, Crockett Point, Rockland (35.2 ng/g, dry weight). Some areas in southern New England have higher levels of PCBs than Maine waters but are still relatively cleaner than the lower Hudson River/Raritan Bay system, which is heavily contaminated from PCBs moving downriver from the upper Hudson (Kimbrough, 2008).

PCBs (polychlorinated biphenyls) are synthetic organic compounds that consist of biphenyl with varying numbers of chlorine atoms. PCBs were manufactured from 1929 to 1977, though they were regulated in 1971 and new uses were banned in 1976. PCBs were used in electrical transformers and capacitors, and in lubricants and hydraulic fluids. They were also included in paints, adhesives, plasticizers, and flame retardants. Manufacturing of PCBs for flame retardants and lubricants was stopped in 1977. Current uses are electrical equipment and transformers (Kimbrough, 2008).

From a human health perspective, the MCDC cancer FTAL for total PCBs for non-commercially caught finfish is 11 ng/g wet wt. (ppb), while the MCDC non-cancer FTAL for total PCBs is 43 ng/g wet wt. (ppb). Of the three SWAT blue mussel sites sampled in 2010, one site had total PCB mean tissue concentrations equal to or exceeding the MCDC cancer FTAL of 11 ng/g wet wt. This site was:

Crockett Point, Rockland, 2010	15 ng/g wet wt.
Crockett Point, Rockland, 2007	23 ng/g wet wt.

TABLE 1.3.3.1.1: Comparison of 35 PCBs Summed for SWAT to 31 PCBs Summed for National Status & Trends and Gulfwatch.

SUM 35 PCBs "SWAT PCBs" List	SUM 31 PCBs "Gulfwatch, NS&T PCBs" List
PCB-5	PCB-8/5
PCB-8	PCB-18/15
PCB-15	PCB-29
PCB 18/30	PCB-50
PCB 26/29	PCB-28
PCB 20/28	PCB-52
PCB 50/53	PCB-44
PCB-52	PCB-66/95
PCB-66	PCB-101/90
PCB-77	PCB-87
PCB-90/101/113	PCB-77
PCB-118	PCB-118
PCB-126	PCB-153/132
PCB-132	PCB-105
PCB-153/168	PCB-138
PCB-169	PCB-126
PCB-187	PCB-187
PCB-170	PCB-128
PCB-190	PCB-180
PCB-128/166	PCB-169
PCB-195	PCB-170/190
PCB-208	PCB-195/208
PCB-180/193	PCB-206
PCB-206	PCB-209
PCB-209	
PCB-105	

Unique to SWAT 35 List	Unique to GW and NS&T 31 List
PCB-30	PCB-44
PCB-26	PCB-95
PCB-53	PCB-87
PCB-20	PCB-138
PCB-166	
PCB-193	

Figure 1.3.3.1.1: SWAT PCBs (Sum of 35 PCBs) and Total PCBs at 2010 SWAT Blue Mussel Sites

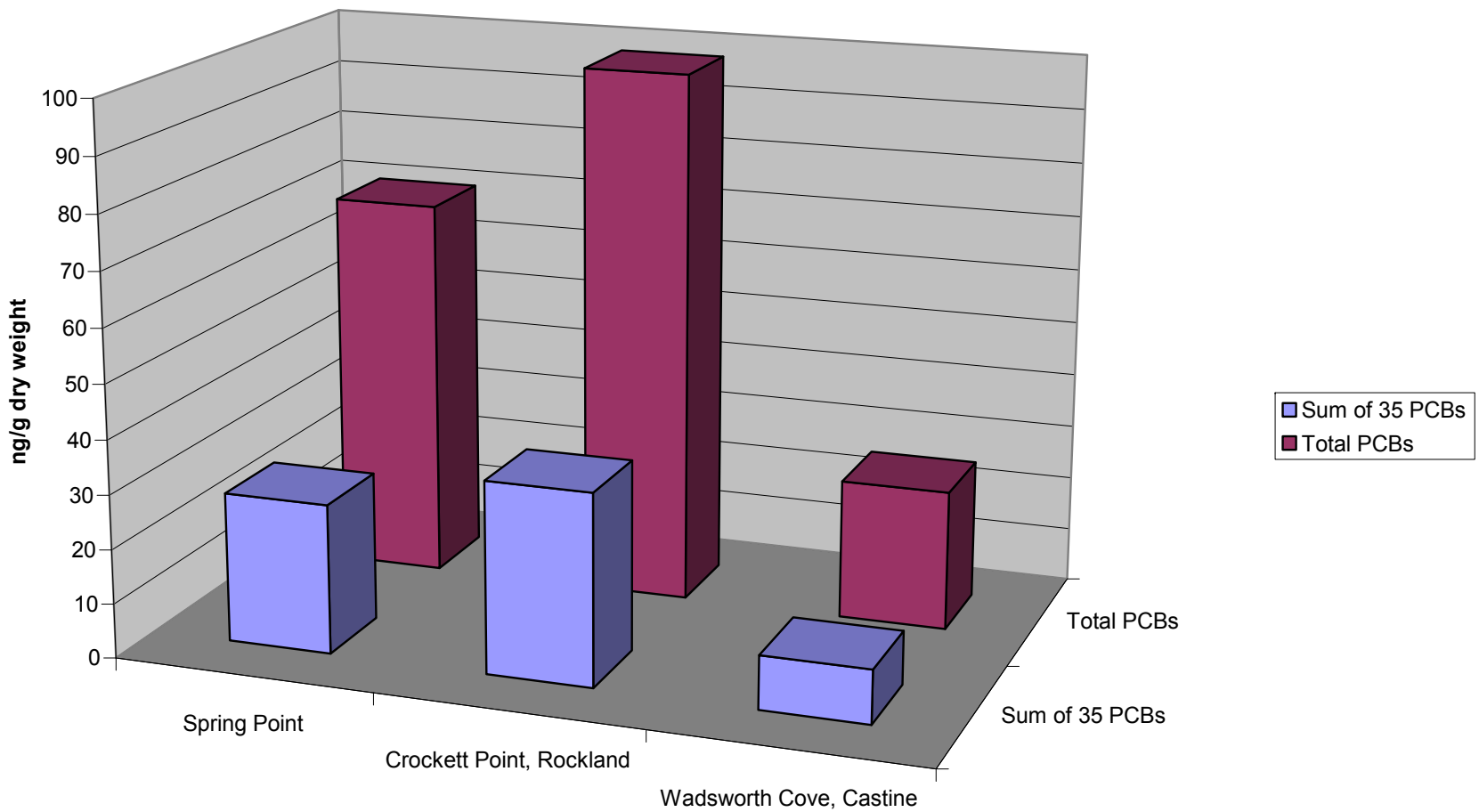
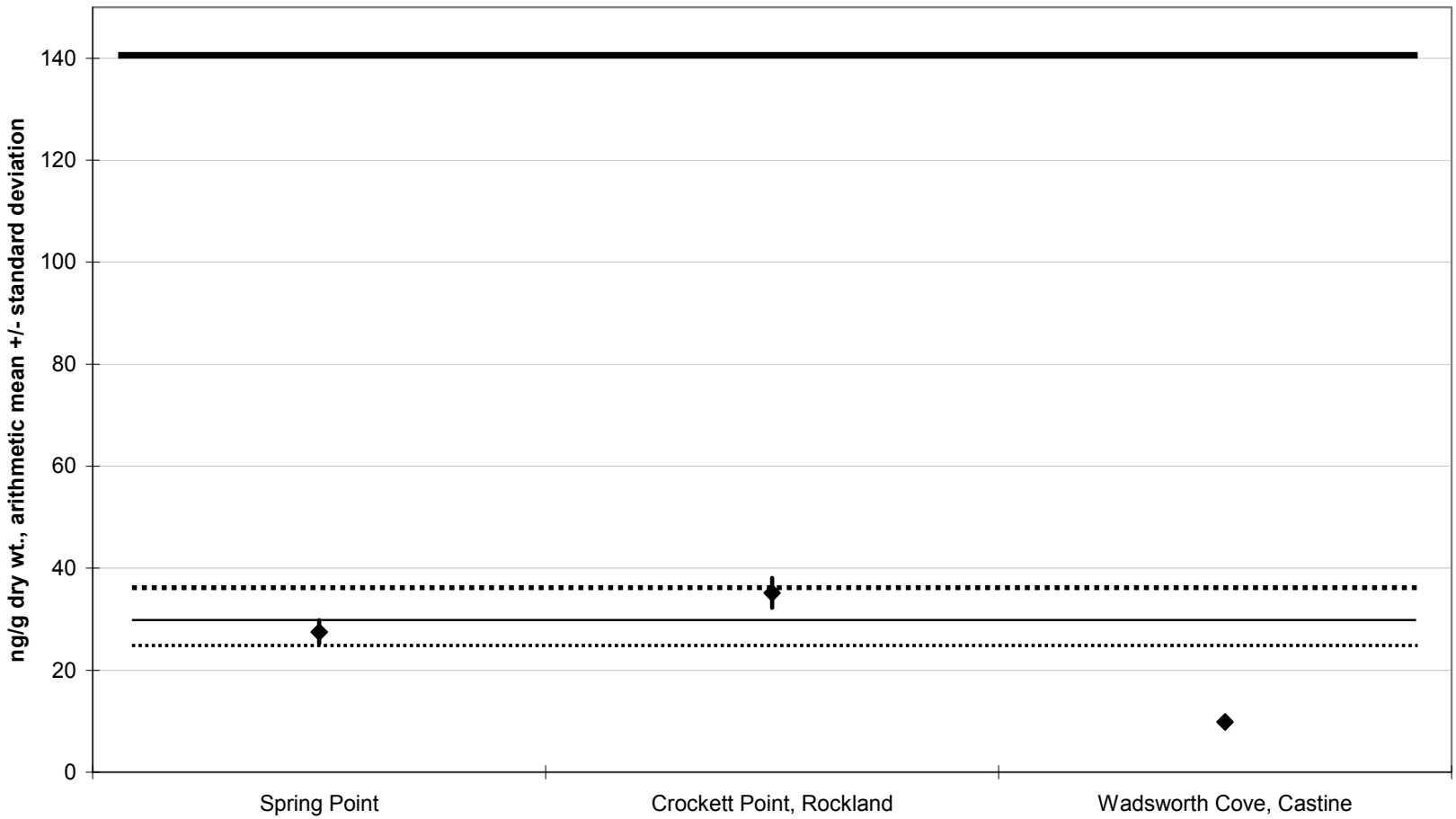


Figure 1.3.3.1.2: SWAT PCBs (Sum of 35 PCBs) in 2010 SWAT Blue Mussels



Dashed lines = 2008 Gulfwatch Median and 85th Percentile (Gulfwatch PCBs, Sum 31); Solid lines = 2008 National Status and Trends Median and 85th Percentile (Sum 31).

None of the three SWAT blue mussel sites sampled had total PCB concentrations approaching the MCDC non-cancer FTAL of 43 ng/g wet wt.

When Crockett Point, Rockland, was tested previously in 2007, the mean concentration at the site was 23 ng/g wet wt., indicating some inter-annual variability in total PCB concentration. This variability may be a result of patchiness and heterogeneity within site, or differences between sampling years. Not enough information is available to suggest a trend in the PCB concentrations, but future sampling will be undertaken to better understand PCBs levels at Crockett Point and its vicinity.

1.3.3.2 Softshell Clams

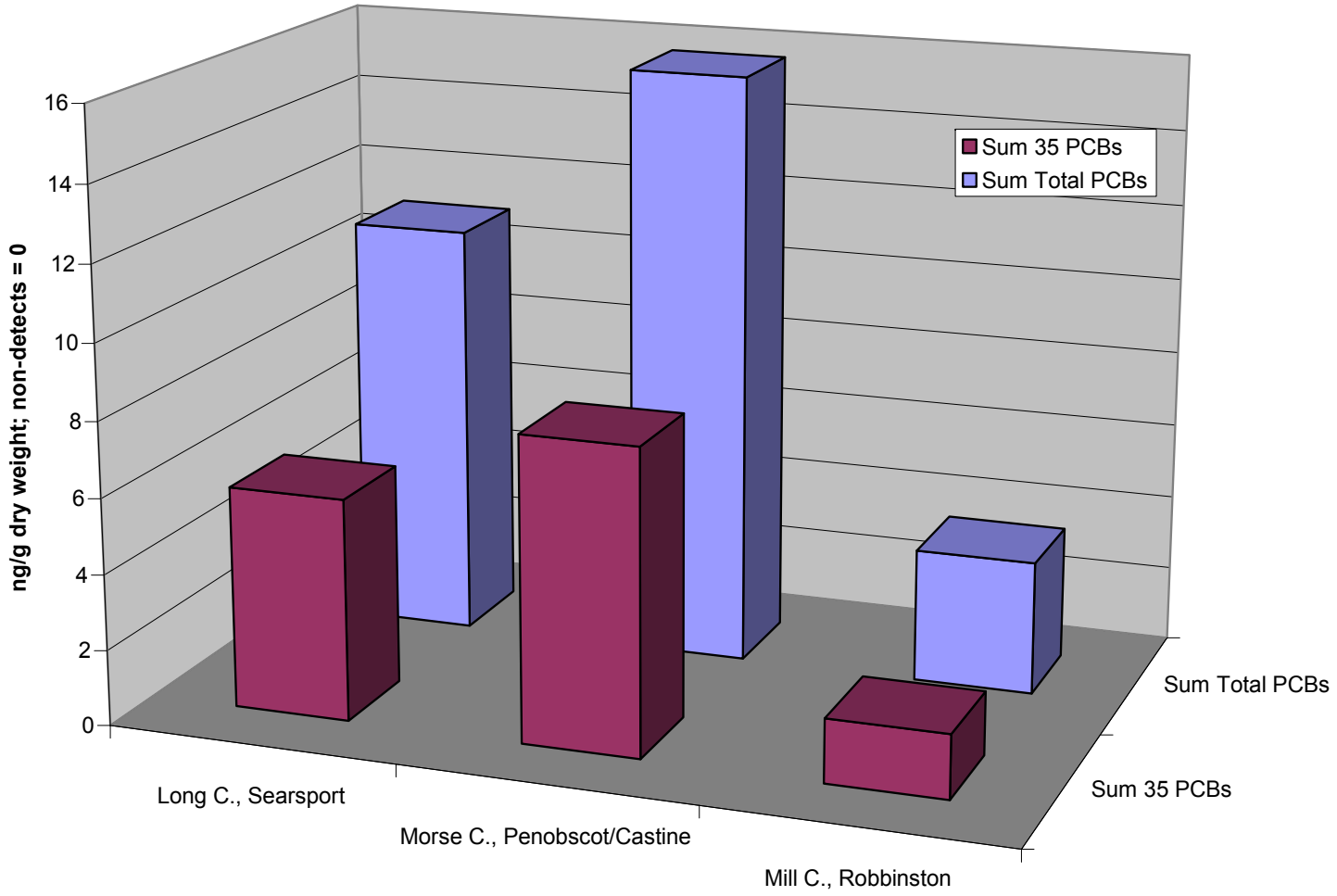
Softshell clams were tested for PCBs from three sites: Long Cove, Searsport; Morse Cove, Castine; and Mill Cove, Robbinston. Morse Cove samples (collected in 2010) were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Long Cove and Mill Cove (collected in 2005) were analyzed by Pace Analytical, Minneapolis, MN. Clam tissue samples were analyzed for 209 PCBs using EPA Method 1668A. Results were compared to Gulf of Maine (Gulfwatch, see LeBlanc, 2009) softshell clam monitoring program data in an effort to place Maine SWAT data in a national and regional context.

Summations of PCBs constructed for comparisons were previously discussed in Section 1.3.3.1 in the blue mussel PCB section. The same approach was utilized to construct clam PCB summations and will not be repeated in this section.

Table 1.3.3.1.1 (in Section 1.3.3.1) shows the list of PCB congeners used by Gulfwatch compared to the list of PCB congeners reported by SWAT. Double numbers in the table represent co-elution or congeners that are quantified together within peaks on the GC output trace. Though the SWAT PCB and NS&T/Gulfwatch PCB congeners included in the summed lists are not completely identical, they are as close a comparison as possible. With some caution in data interpretation, this comparison may be used to place Maine SWAT blue mussel tissue PCB concentrations in a Gulf of Maine-wide perspective.

To compare what proportion of the total PCBs (209 congeners) the SWAT PCBs represent, Figure 1.3.3.2.1 shows both the total PCBs next to the SWAT PCBs list used for comparison to Gulfwatch. Comparing the three clam sites sampled in 2010, the SWAT PCBs ranged from 47% to 53% of the total PCBs. The close relationship between total PCBs and the SWAT PCBs subset for 2010 clam tissue can easily be noted in Figure 1.3.3.2.1. Total PCB concentrations ranged from a low mean concentration of 3.5 ng/g dry wt. at Mill Cove, Robbinston, to a high mean concentration of 15.7 ng/g dry wt. at Morse Cove, Castine (Figure 1.3.3.2.1).

Figure 1.3.3.2.1: Sum of 35 and Sum of Total PCBs in SWAT Softshell Clams



Mill Cove, Robbinston, and Long Cove, Stockton Springs, were sampled in 2005, and analyzed at a different lab than the Morse Cove, Castine, clam tissue from 2010. These two sites had much higher detection limits than those generated by the newer lab (Axys Analytical) that worked up the recent Morse Cove sample. In order to prevent the non-detects at Mill and Long Coves driving up the summations if non-detects were assigned a value of half the detection limit at the much higher detection limits used at the time of their analysis, all non-detects were assigned a value of zero for this figure and subsequent PCB analysis of the clam samples.

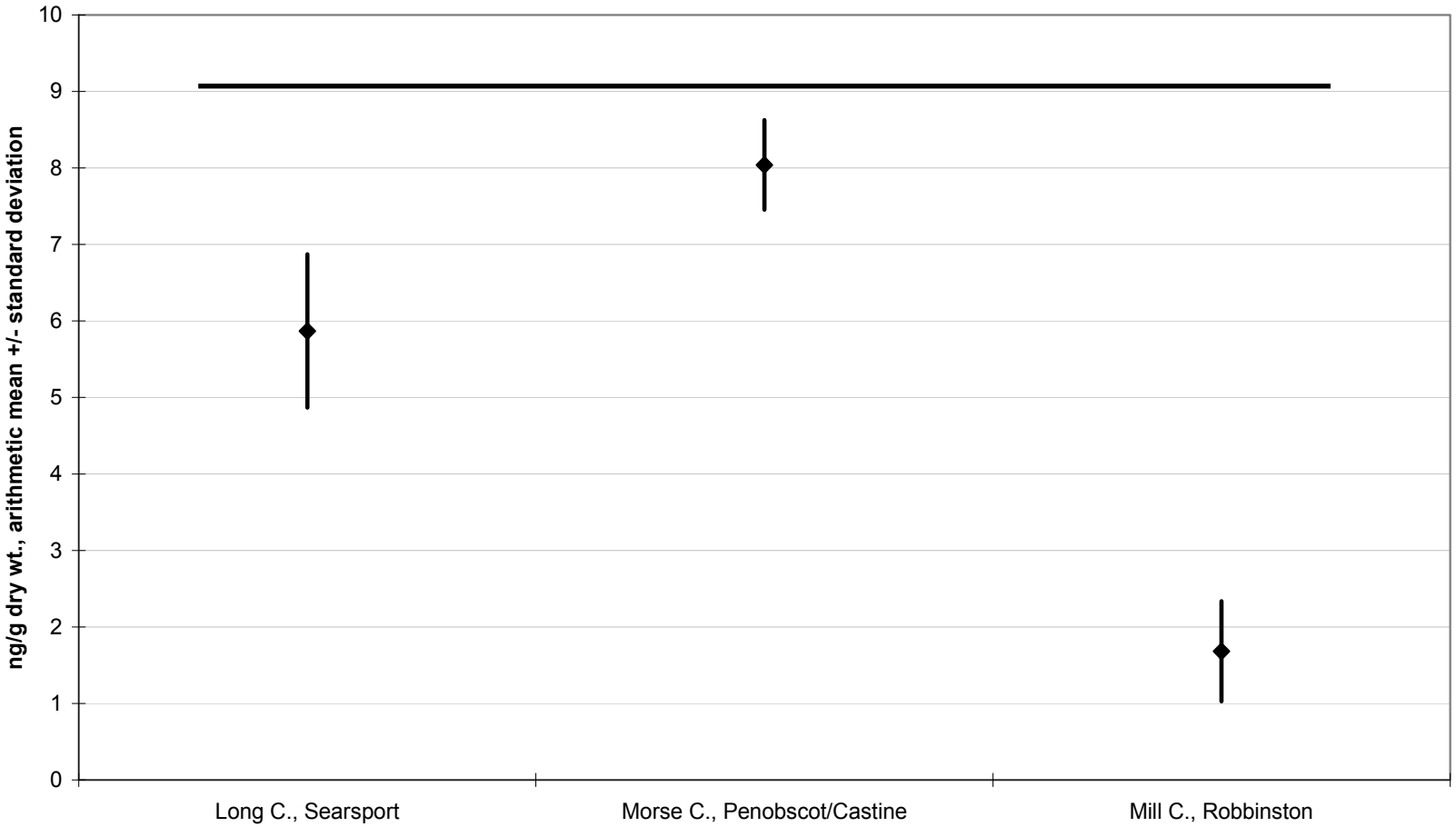
Figure 1.3.3.2.2 compares the SWAT PCBs at the 2010 SWAT clam sites to a recent Gulfwatch clam site sampled in 2008 (the most recent available). All three SWAT clam site sums of 35 PCBs fell below the one Gulfwatch site mean. As noted above, comparison of 35 summed congeners from SWAT PCBs to 31 summed congeners from Gulfwatch PCBs is as close a comparison as possible due to differences in some PCBs co-eluting in different GC traces across laboratories. Gulfwatch non-detects were valued as half-detects, which will elevate the sum of 35 PCBs at North Mill Pond, NH, to some extent over the SWAT summations taken at non-detect valued at zero. Detection limits at the Gulfwatch site were lower than the older 2005 SWAT PCB analysis. Despite these differences, the summation of 35 SWAT congeners is useful for putting Maine data into a regional, Gulf of Maine context.

Summations of 35 PCBs at the SWAT clam sites all fall below recent NS&T (NS&T) median (29.2 ng/g, dry weight) and 85th percentile (141 ng/g, dry weight) for NS&T PCBs (2008 data, the most recent available). This was not included in Figure 1.3.3.2.2 due to the massive scale differences between the two data sets. The 2008 NS&T national 85th percentile was approximately 9 times higher than the highest scoring clam PCB site tested by SWAT in Maine in 2010.

PCBs (polychlorinated biphenyls) are synthetic organic compounds that consist of biphenyl with varying numbers of chlorine atoms. PCBs were manufactured from 1929 to 1977, though they were regulated in 1971 and new uses were banned in 1976. PCBs were used in electrical transformers and capacitors, and in lubricants and hydraulic fluids. They were also included in paints, adhesives, plasticizers, and flame retardants. Manufacturing of PCBs for flame retardants and lubricants was stopped in 1977. Current uses are electrical equipment and transformers (Kimbrough, 2008).

From a human health perspective, the MCDC cancer FTAL for total PCBs for non-commercially caught finfish is 11 ng/g wet wt. (ppb), while the MCDC non-cancer FTAL for total PCBs is 43 ng/g wet wt. (ppb). Of the three SWAT clam sites sampled, the highest mean tissue concentration for total PCBs on a wet weight basis was 2.6 ng/g at Morse Cove, Castine, which was approximately one fourth of the MCDC cancer FTAL of 11 ng/g wet wt.

Figure 1.3.3.2.2: Sum 21 PCBs in SWAT Softshell Clams



Solid line = Gulfwatch 2008 softshell clam site at North Mill Pond, NH; three other 2008 Gulfwatch softshell clam sites had 0 Sum 21 PCB concentrations.

1.3.4. Pesticides

1.3.4.1 Blue Mussels

Blue mussels were tested for pesticides from all three sites where mussels were collected in 2010 and tissues were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Mussel tissue samples were analyzed for organochlorinated pesticides (modified EPA Method 8081/EPA 1625) using gas chromatograph/mass spectrometer (GC/MS). Organochlorinated pesticide results were compared to national (NOAA NS&T, see Kimbrough, 2008) and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) blue mussel monitoring program data (when available) in an effort to place Maine SWAT data in a national and regional context.

The NS&T and Gulfwatch programs utilize a summation of 21 organochlorinated pesticides to look at general pesticide concentrations. SWAT pesticide laboratory results include these 21 organochlorinated pesticides and several more. Table 1.3.4.1.1 shows the Gulfwatch list of 21 organochlorinated pesticides (also used by NS&T Mussel Watch Program) and as well shows additional pesticides included in SWAT results. To allow direct comparison to Gulfwatch and NS&T results summing 21 organochlorinated pesticides, SWAT data were summed for the same 21 organochlorinated pesticides.

To allow comparison to other NS&T Mussel Watch program work, summations of SWAT data were completed for: Dichlorodiphenyldichloroethanes (DDDs), dichlorodiphenyldichloroethylenes (DDEs), and dichlorodiphenyltrichloroethanes (DDTs), chlordanes; and dieldrins. Methodology was consistent with that used by Musselwatch in constructing summations of these pesticide compound groups. Use of these summations assists in putting Maine SWAT data into a national context.

1.3.4.1.1 ΣDDTs

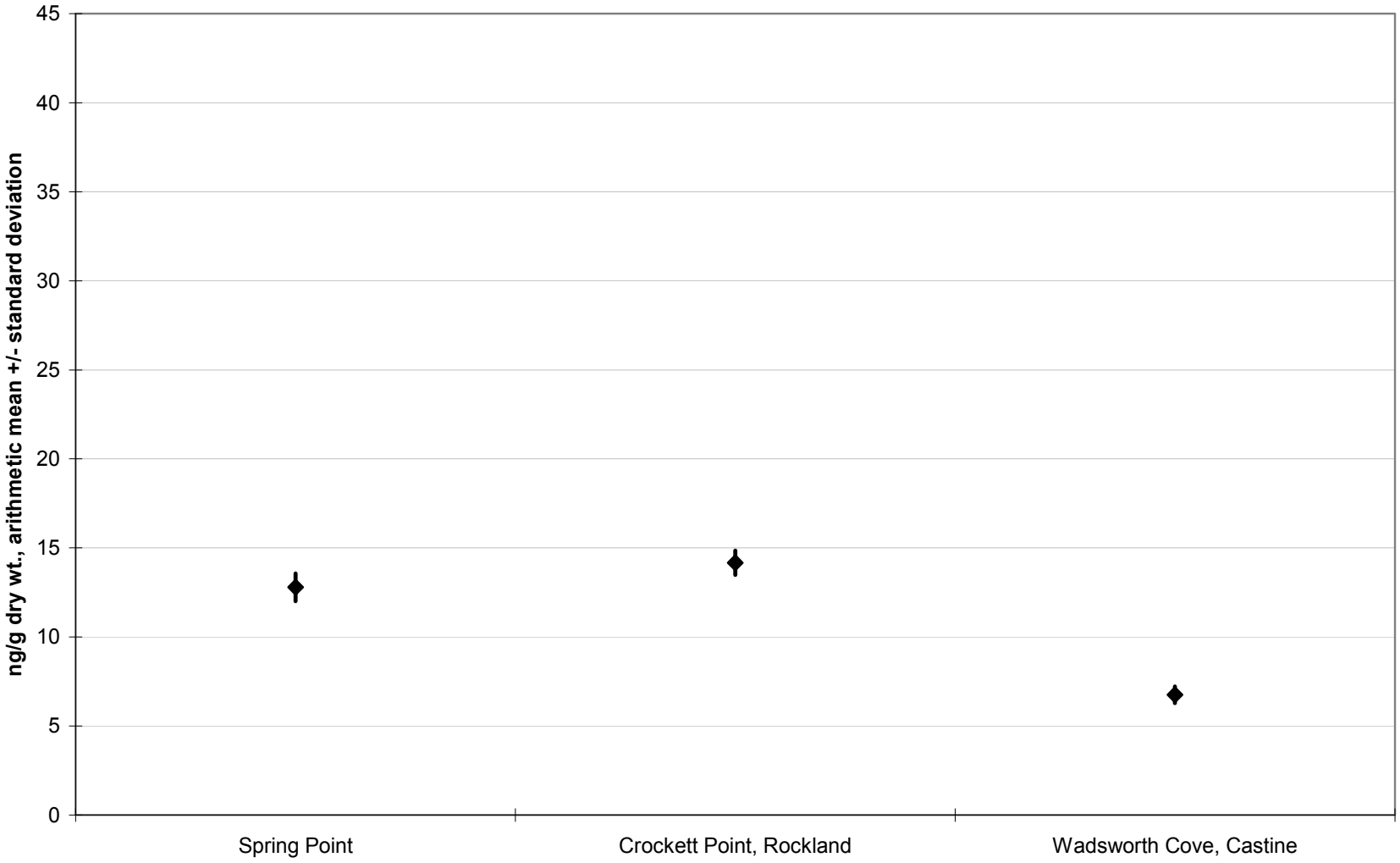
The summation of DDDs, DDEs, and DDTs, (six compounds total, called ΣDDTs in this report) is presented in Figure 1.3.4.1.1.1 for the three 2010 SWAT mussel sites. ΣDDTs ranged from a low mean concentration of 6.8 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 14.2 ng/g dry wt. at Crockett Point, Rockland. The NS&T Mussel Watch considers ΣDDTs scores between 0 and 112 ng/g dry wt. in blue mussel tissue to be "low" (groupings include low, moderate, and high) on a national scale, with all three SWAT sites sampled in 2010 falling in the low category of that range. This is consistent with all mussel sites sampled Maine coast-wide over the past four years, with all falling into the low end of the low NS&T grouping.

ΣDDTs are in the low range in blue mussels throughout the northeast, with higher scores occurring in oysters in the Gulf of Mexico and in mussels on the southwest coast of California. Highest concentrations are generally found near historic DDT manufacturing plants. DDT was banned in the US in 1972, after widespread use as a pesticide. DDT is persistent in the environment and also is hydrophobic, leading to DDT bioaccumulating in organisms. DDT concentrations in shellfish are decreasing across US sampling stations (Kimbrough, 2008).

Table 1.3.4.1.1: Pesticides Utilized in SWAT Blue Mussel and Softshell Clam Analysis

Organochlorines	Gulfwatch Chlorinated Pesticides (Sum 21)	SWAT	
		2010	2005
ALDRIN	x	x	x
ALPHA-BHC	x	x	
BETA-BHC		x	
DELTA-BHC		x	
GAMMA-BHC (LINDANE)	x	x	x
CAPTAN		x	
ALPHA-CHLORDANE (cis-CHLORDANE)	x	x	x
GAMMA-CHLORDANE	x	x	x
CHLOROTHALONIL		x	
DACTHAL		x	
2,4'-DDD	x	x	x
4,4'-DDD	x	x	x
2,4'-DDE	x	x	x
4,4'-DDE	x	x	x
2,4'-DDT	x	x	x
4,4'-DDT	x	x	x
DIELDRIN	x	x	x
ENDOSULFAN I (α-ENDOSULFAN)	x	x	x
ENDOSULFAN II (β-ENDOSULFAN)	x	x	x
ENDOSULFAN SULFATE		x	
ENDRIN	x	x	x
ENDRIN KETONE		x	
HEPTACHLOR	x	x	x
HEPTACHLOR EPOXIDE	x	x	x
HEXACHLOROBENZENE	x	x	x
METHOXYCHLOR	x	x	
MIREX	x	x	x
CIS-NONACHLOR		x	
TRANS-NONACHLOR	x	x	x
OCTACHLOROSTYRENE		x	
OXYCHLORDANE		x	
PERTHANE		x	
QUINTOZENE		x	
TECNAZENE		x	
ENDRIN ALDEHYDE			
	21	34	19

Figure 1.3.4.1.1.1: Sum of DDDs, DDEs, and DDTs in 2010 SWAT Blue Mussels



From a human health perspective, MCDC reports a cancer DDT FTAL of 64 ng/g wet wt. (ppb) and a non-cancer DDT FTAL of 1,080 ng/g wet wt. The MCDC DDT FTALs are based on the summation of DDDs, DDEs, and DDTs, (six compounds total, called ΣDDTs in this report), except that they are expressed on a wet tissue weight basis rather than a dry weight basis used in the SWAT monitoring segments of this report. When converted to wet weight, the highest 2010 SWAT blue mussel tissue DDT concentration was 2.2 ng/g wet wt., which is 3.4% of the more conservative MCDC cancer FTAL of 64 ng/g wet wt.

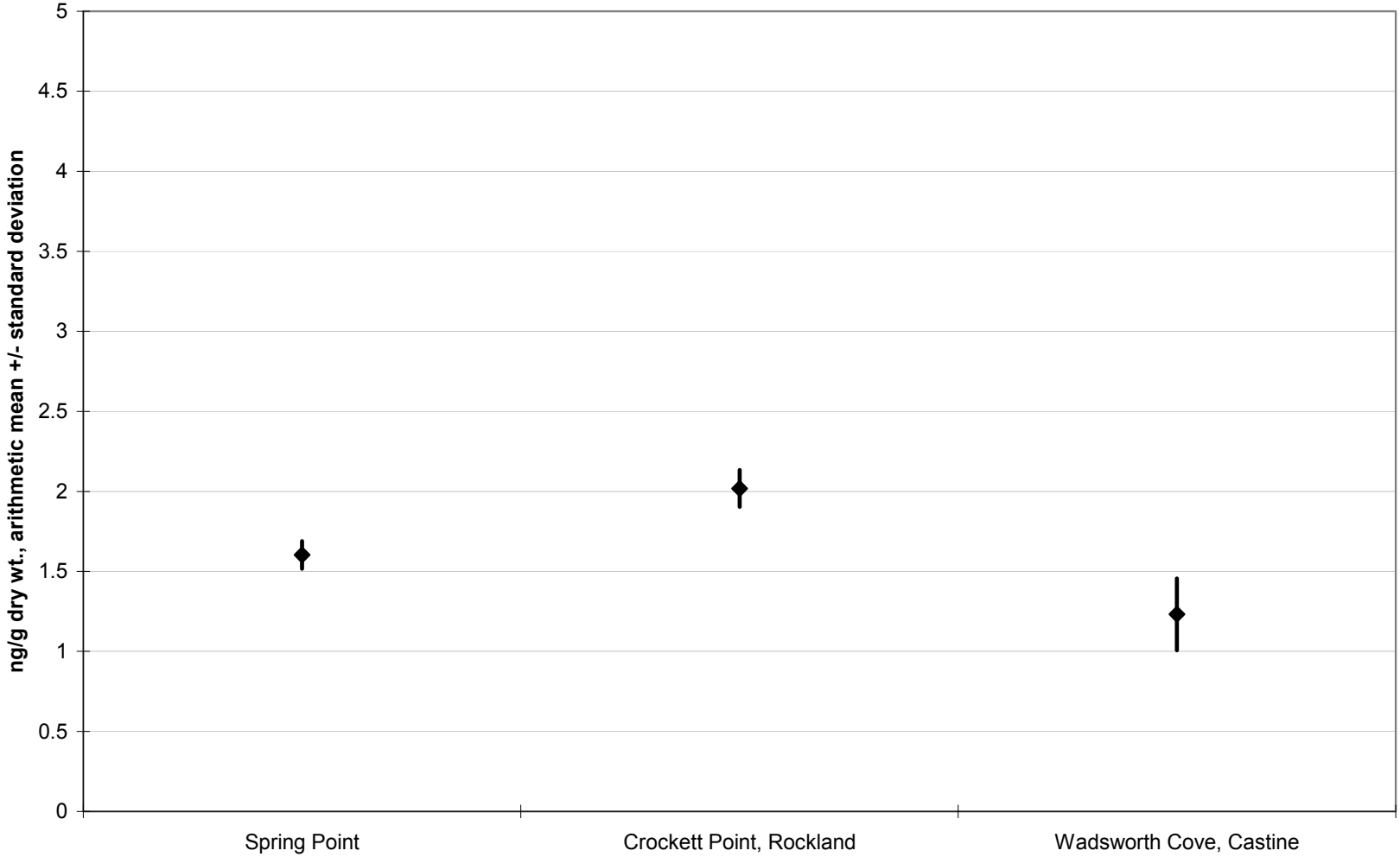
1.3.4.1.2 ΣChlordanes

The summation of alpha-chlordane, heptachlor, trans-nonachlor, and heptachlor epoxide (four compounds total, called Σchlordanes in this report) was determined from SWAT data and is presented in Figure 1.3.4.1.2.1. Σchlordanes ranged from a low mean concentration of 1.2 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 2.0 ng/g dry wt. at Crockett Point, Rockland. NS&T considers Σchlordanes scores between 0 and 8 ng/g dry wt. in blue mussel tissue to be "low" (groupings include low, moderate, and high) on a national scale. All three sites sampled in 2010 fall in the lowest quarter of that low category (Kimbrough, 2008).

Σchlordanes are in the low range in blue mussels throughout much of the northeast US, with a few exceptions in urbanized areas like Boston or New York City. Highest concentrations are generally found near areas of historic agricultural use or in urban areas from termite control applications (Kimbrough, 2008). Chlordane, one of the cyclodiene organic pesticides, is a mixture of more than fifty compounds, but is predominantly made up of alpha- and gamma-chlordane, heptachlor, and nonachlor. The NS&T and our SWAT summation capture three of these compounds, plus one transformation product (heptachlor epoxide). Chlordane was used from roughly 1948 through 1983 in agriculture, when it was banned. Chlordane was also the primary insecticide for termite control under ground. All uses were banned in 1988 (Kimbrough, 2008). NS&T Mussel Watch reported that Chlordane was one of the most ubiquitous contaminants measured by that program. Σchlordanes concentrations in shellfish are decreasing across US sampling stations (Kimbrough, 2008).

The MCDC reports a cancer and non-cancer FTALs for chlordane/nonachlor (summation of alpha-chlordane, gamma-chlordane, and trans-nonachlor) and heptachlor epoxide. MCDC reports a cancer FTAL of 17 ng/g wet wt. and a non-cancer FTAL of 130 ng/g wet wt. for chlordane/nonachlor. The 2010 SWAT blue mussel tissue data, when summed in the same manner, shows the highest mean concentration recorded to be 0.31 ng/g wet wt., which is 1.8% of the 17 ng/g cancer FTAL. MCDC reports a cancer FTAL of 2.4 ng/g wet wt. and a non-cancer FTAL 28 ng/g wet wt. for heptachlor epoxide. The highest mean value for heptachlor epoxide in 2010 SWAT blue mussel tissue was 0.027 ng/g wet wt., which is 1.1% of the 2.4 ng/g wet wt. cancer FTAL.

Figure 1.3.4.1.2.1: Sum of Chlordanes in 2010 SWAT Blue Mussels



1.3.4.1.3 ΣDieldrins

The summation of aldrin and dieldrin (two compounds total, called Σdieldrins in this report) was determined from SWAT data and is presented in Figure 1.3.4.1.3.1. Σdieldrins ranged from a low mean concentration of 0.44 ng/g dry wt. at Spring Point, South Portland, to a high mean concentration of 0.90 ng/g dry wt. at Crockett Point, Rockland. NS&T Mussel Watch considers Σdieldrins scores between 0 and 8 ng/g dry wt. in blue mussel tissue to be "low" (groupings include low, moderate, and high) on a national scale, with all three of the 2010 SWAT sites falling in the bottom of the low category (Kimbrough, 2008).

Σdieldrins are in the low range in blue mussels throughout most of the northeast US. Nationally, the highest concentrations are generally found near areas of historic pesticide use and manufacturing (Kimbrough, 2008). Dieldrin and aldrin were used as insecticides through the 1960s for the control of termites and on crops. All uses were suspended in 1970, but use as a termite insecticide was allowed again from 1972 through 1989, when use was again cancelled. Aldrin and dieldrin are carcinogenic in animals, and are thought to be in humans (Kimbrough, 2008).

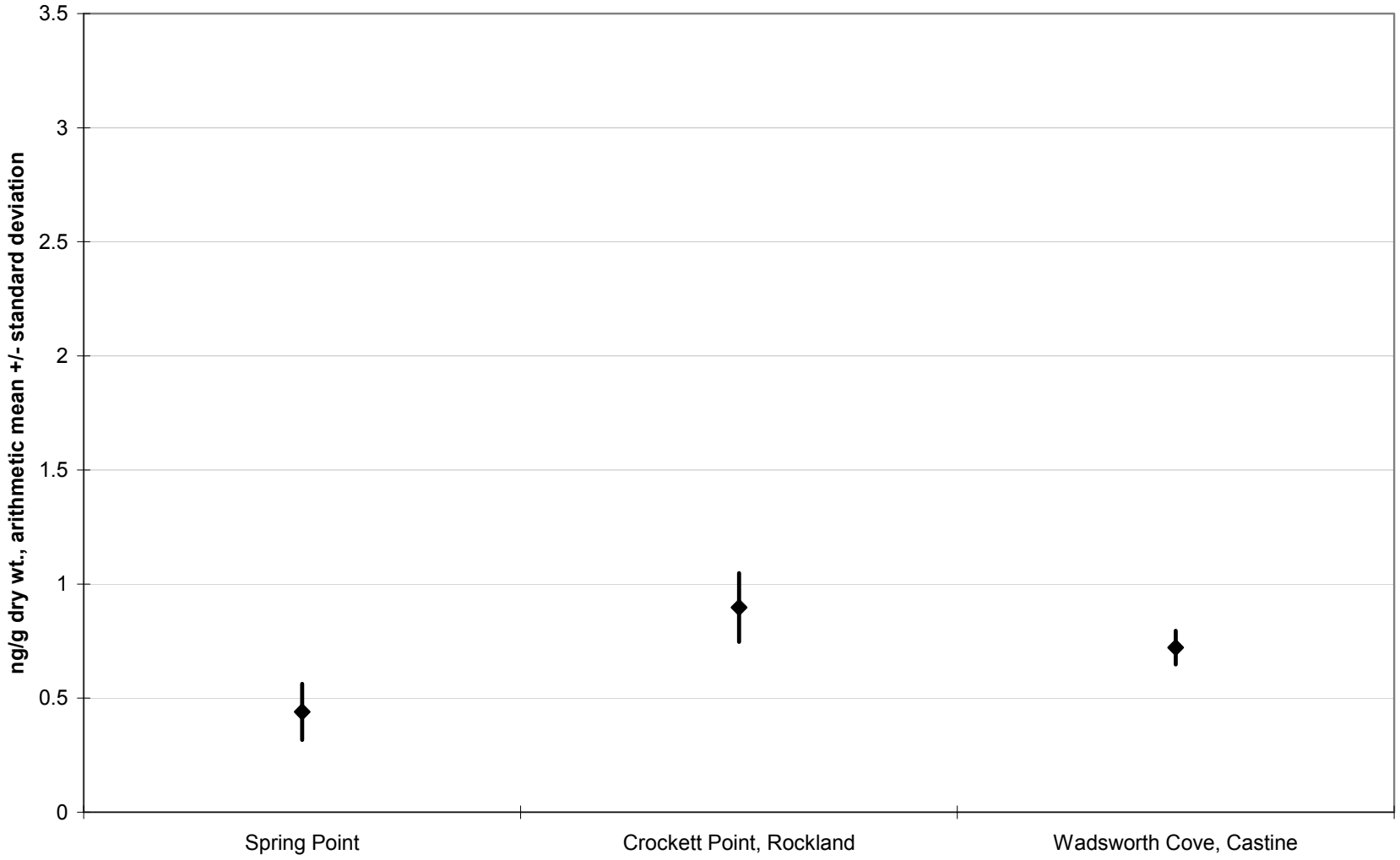
From a human health perspective, MCDC reports cancer and non-cancer FTALs for dieldrin and separately for aldrin. MCDC reports a cancer FTAL of 1.4 ng/g wet wt. and a non-cancer FTAL of 108 ng/g wet wt. for dieldrin. The highest dieldrin mean concentration in blue mussel tissue in 2010 SWAT data was 0.12 ng/g wet wt., which is 8.6% of the MCDC cancer FTAL. MCDC reports a cancer FTAL of 1.3 ng/g wet wt. and a non-cancer FTAL of 65 ng/g wet wt. for aldrin. The highest aldrin mean concentration in blue mussel tissue in 2010 SWAT data was 0.0018 ng/g wet wt., which is 0.1% of the MCDC cancer FTAL.

1.3.4.1.4 Σ21 Organochlorines

The summation of 21 organochlorine pesticides (as noted in Table 1.3.4.1.1) was determined from SWAT data and is presented in Figure 1.3.4.1.4.1 (21 compounds total, called Σ21 Pesticides in this report). Σ21 Pesticides ranged from a low mean concentration of 10.4 ng/g dry wt. at Wadsworth Cove, Castine, to a high mean concentration of 19.1 ng/g dry wt. at Crockett Point, Rockland. Figure 1.3.4.1.4 compares the sum of Σ21 Pesticides at the 2010 SWAT sites to recent Gulfwatch median and 85th percentile for Σ21 Pesticides (2008 data, the most recent available). All three of the 2010 SWAT sites exceeded the Gulfwatch 2008 median, 9.9 ng/g (dry weight) for Σ21 Pesticides, although Wadsworth Cove, Castine, was very close to the Gulfwatch median. Two sites exceeded the Gulfwatch 85th percentile, 14.3 ng/g (dry weight), for Σ21 Pesticides (Spring Point, South Portland, and Crockett Point, Rockland). The remaining station at Wadsworth Cove, Castine, fell below the Gulfwatch 85th percentile concentration for Σ21 Pesticides.

Figure 1.3.4.1.4.1 also compares the sum of Σ21 Pesticides at the 2010 SWAT sites to recent NS&T Mussel Watch median and 85th percentile for Σ21 Pesticides (2008 data, the most recent available). Of the three SWAT sites tested, none exceeded the NS&T 2008 median, 22.9 ng/g (dry weight), for Σ21 Pesticides. None of the three sites sampled in 2010 approached or exceeded the NS&T 85th percentile of 128 ng/g (dry weight) for Σ21 Pesticides.

Figure 1.3.4.1.3.1: Sum of Dieldrins in 2010 SWAT Blue Mussels



From a human health perspective, the MCDC reports cancer and/or non-cancer FTALs for several individual chlorinated pesticides which fall under the heading of the Σ21 Pesticides discussed above. To compare the FTALs to SWAT data, the individual pesticide data has been expressed on wet weight basis and matched to the corresponding MCDC FTAL.

For hexachlorobenzene, MCDC reports a cancer FTAL of 14 ng/g wet wt. and a non-cancer FTAL of 1,728 ng/g wet wt. The highest mean hexachlorobenzene concentration in blue mussel tissue detected by SWAT in 2010 was 0.048 ng/g wet wt., which is 0.3% of the more protective MCDC cancer FTAL.

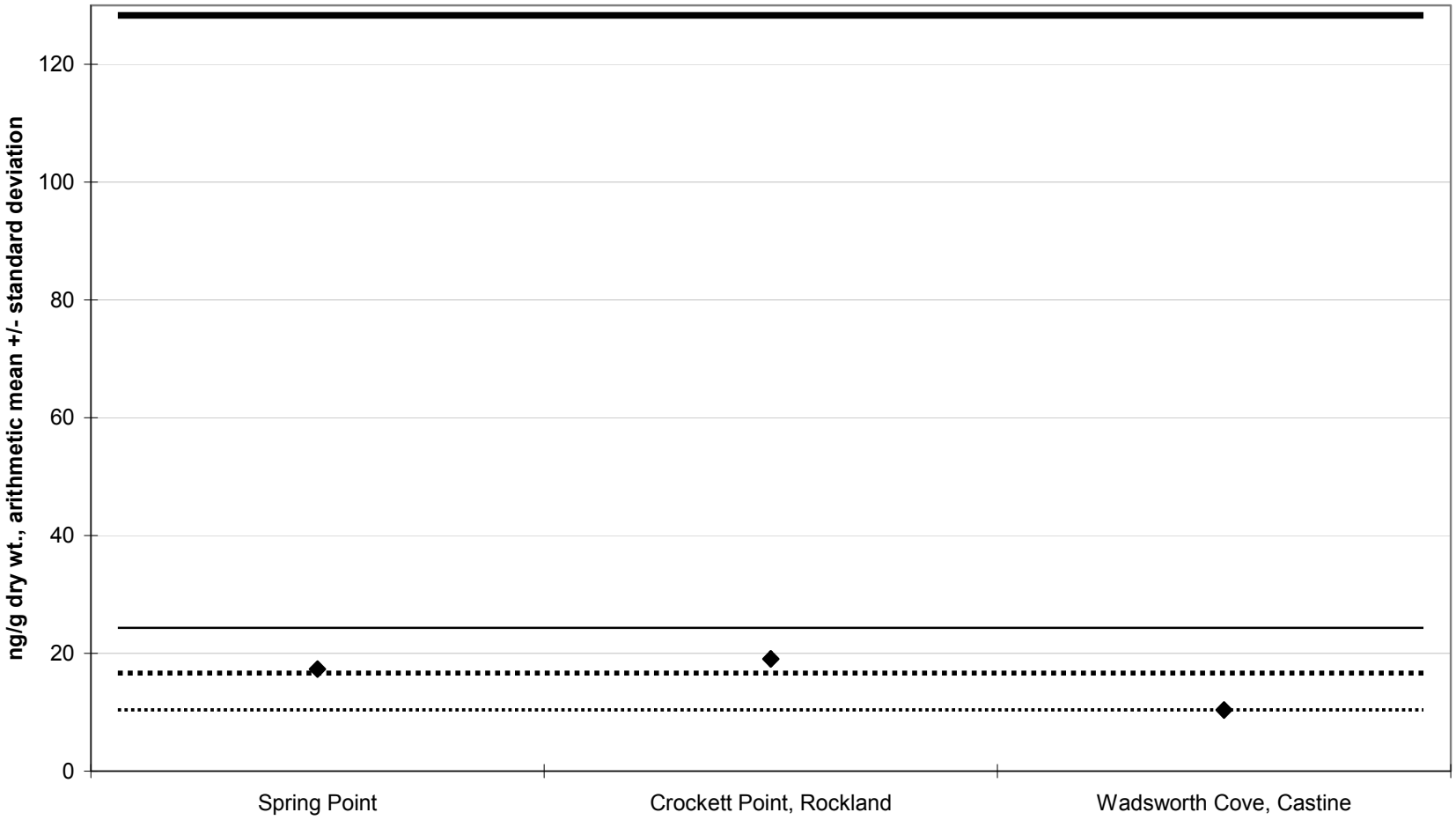
For heptachlor, MCDC reports a cancer FTAL of 5 ng/g wet wt. and a non-cancer FTAL of 1,080 ng/g wet wt. The highest mean heptachlor concentration in blue mussel tissue detected by SWAT in 2010 was 0.032 ng/g wet wt., which was 0.6% of the more protective MCDC cancer FTAL.

For mirex, MCDC reports a non-cancer FTAL of 432 ng/g wet wt. MCDC does not report a cancer FTAL for mirex. The highest mean mirex concentration in blue mussel tissue detected by SWAT in 2010 was 0.052 ng/g wet wt., which was 0.01% of the MCDC non-cancer FTAL.

For lindane, MCDC reports a cancer FTAL of 17 ng/g wet wt. and a non-cancer FTAL of 648 ng/g wet wt. The highest mean lindane concentration in blue mussel tissue detected by SWAT in 2010 was 0.045 ng/g wet wt., which was 0.3% of the more protective MCDC cancer FTAL.

For endosulfan (summation of endosulfan I and II), MCDC reports a non-cancer FTAL of 12,963 ng/g wet wt. MCDC does not report a cancer FTAL for endosulfan. The highest mean endosulfan concentration in blue mussel tissue detected by SWAT in 2010 was 0.034 ng/g wet wt., which was 0.0003% of the MCDC non-cancer FTAL.

Figure 1.3.4.1.4.1: Sum of 21 Chlorinated Pesticides in 2010 SWAT Blue Mussels



Dashed lines = 2008 Gulfwatch Median and 85th Percentile (Sum 21 Chlorinated Pesticides); Solid lines = 2008 National Status and Trends Median and 85th Percentile (Sum 21 Chlorinated Pesticides).

1.3.4.2 Softshell Clams

Softshell clams from Morse Cove, Castine (2010), were tested for pesticides and tissues were analyzed by AXYS Analytical Services Ltd., Sidney, British Columbia. Softshell clams tested for pesticides in 2005 (Long Cove, Searsport; Fort Point Cove, Stockton Springs; and Mill Cove, Robbinston) were analyzed at Pace Analytical, Minneapolis, MN. Clam tissue samples were analyzed for organochlorinates (modified EPA Method 8081/EPA 1625) using GC/MS. Organochlorinated pesticide results were compared to national (NOAA NS&T, see Kimbrough, 2008) and Gulf of Maine (Gulfwatch, see LeBlanc, 2009) blue mussel monitoring program data (when available) in an effort to place Maine SWAT data in a national and regional context.

To allow comparison to other NS&T Mussel Watch program work, summations of SWAT data were completed for: DDDs, DDEs, and DDTs; chlordanes; and dieldrins. Methodology was consistent with that used by Mussel Watch in constructing summations of these pesticide compound groups. Use of these summations assists in putting Maine SWAT data into a national context.

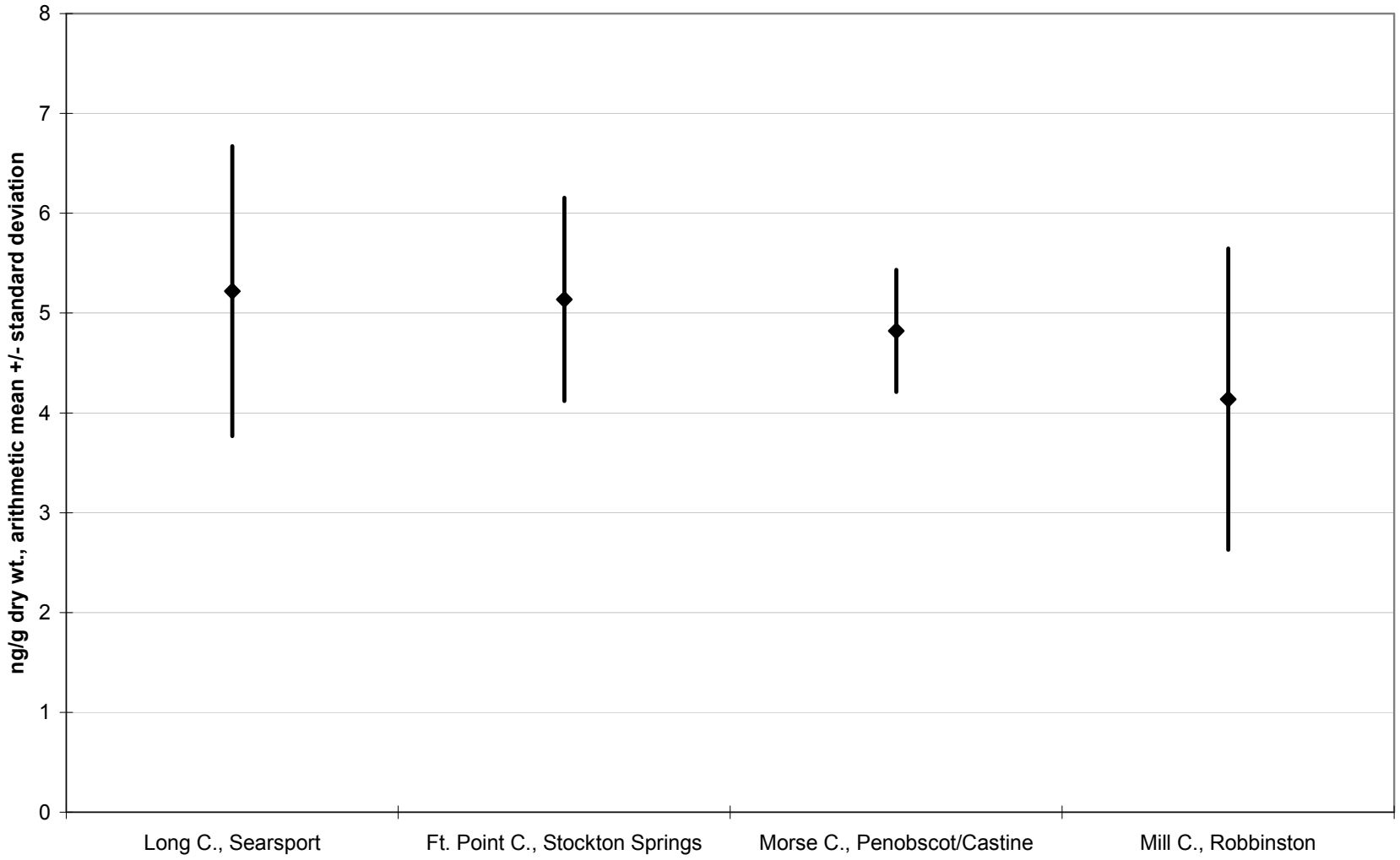
The summations of 21 organochlorinated pesticides utilized by the NS&T and Gulfwatch programs were discussed previously in Section 1.3.4.1, and Table 1.3.4.1.1 in that section shows the Gulfwatch list of 21 organochlorinated pesticides (also used by NS&T Mussel Watch Program) and additional pesticides included in SWAT results. To allow direct comparison to Gulfwatch and NS&T results summing 21 organochlorinated pesticides, SWAT data were summed for the same 21 organochlorinated pesticides.

1.3.4.2.1 ΣDDTs

The summation of DDDs, DDEs, and DDTs, (six compounds total, called ΣDDTs in this report) is presented in Figure 1.3.4.2.1.1 for the four SWAT softshell clam sites. ΣDDTs ranged from a low mean concentration of 4.1 ng/g dry wt. at Mill Cove, Robbinston, to a high mean concentration of 5.2 ng/g dry wt. at Long Cove, Searsport. The NS&T Mussel Watch considers ΣDDTs scores between 0 and 112 ng/g dry wt. in blue mussel tissue to be “low” (groupings include low, moderate, and high) on a national scale, with all four SWAT clam sites falling in the low category of that range.

ΣDDTs are in the low range in blue mussels throughout the northeast, with higher scores occurring in oysters in the Gulf of Mexico and in mussels on the southwest coast of California. Highest concentrations are generally found near historic DDT manufacturing plants. DDT was banned in the US in 1972, after widespread use as a pesticide. DDT is persistent in the environment and also is hydrophobic, leading to DDT bioaccumulating in organisms. DDT concentrations in shellfish are decreasing across US sampling stations (Kimbrough, 2008).

Figure 1.3.4.2.1.1: Sum of DDDs, DDEs, and DDTs in SWAT Softshell Clams



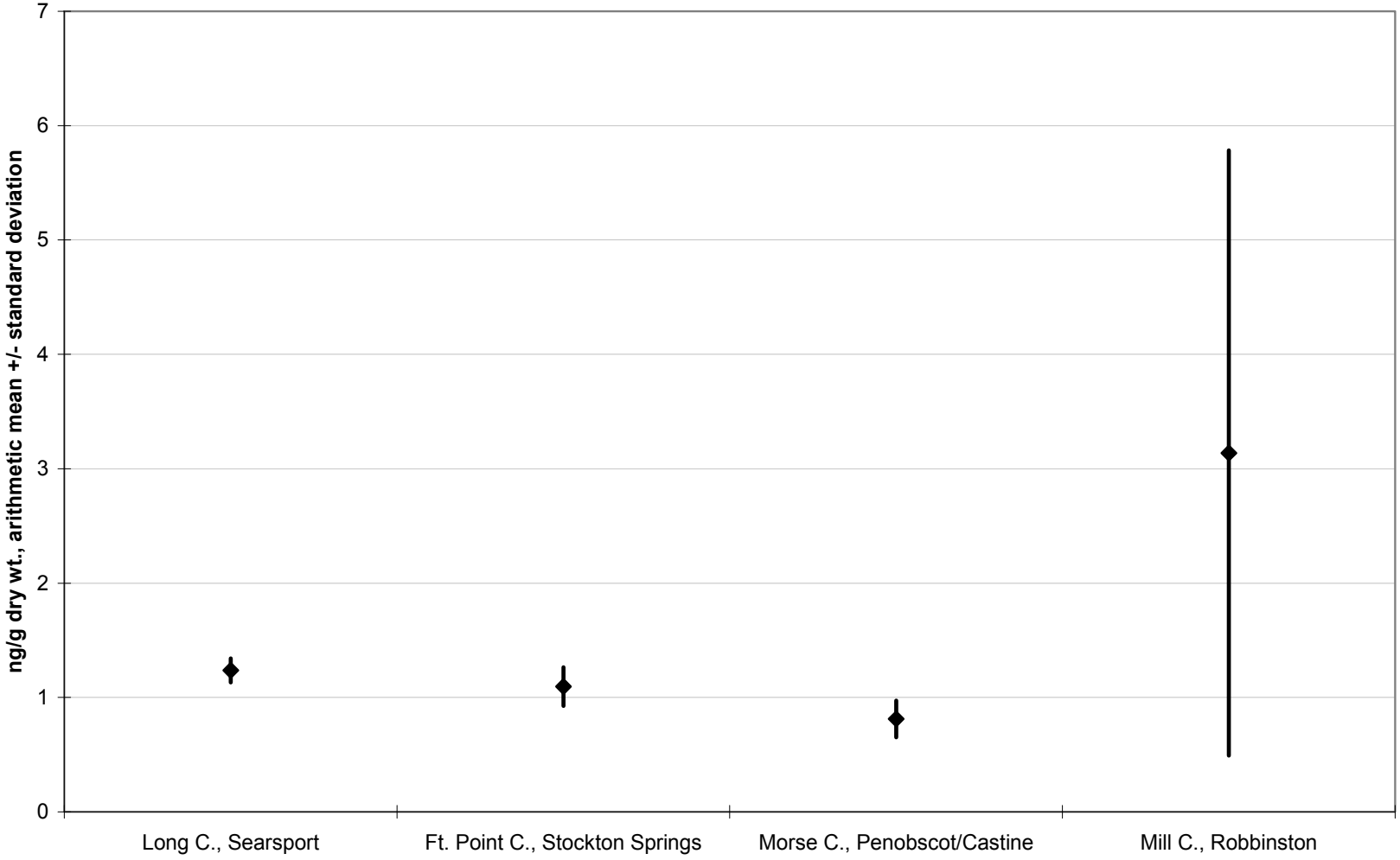
From a human health perspective, MCDC reports a cancer DDT FTAL of 64 ng/g wet wt. (ppb) and a non-cancer DDT FTAL of 1,080 ng/g wet wt. The MCDC DDT FTALs are based on the summation of DDDs, DDEs, and DDTs, (six compounds total, called ΣDDTs in this report), except that they are expressed on a wet tissue weight basis rather than a dry weight basis used in the SWAT monitoring segments of this report. When converted to wet weight, the highest SWAT softshell clam tissue DDT concentration was 0.87 ng/g wet wt., which is 1.4% of the more conservative MCDC cancer FTAL of 64 ng/g wet wt.

1.3.4.2.2 ΣChlordanes

The summation of alpha-chlordane, heptachlor, trans-nonachlor, and heptachlor epoxide (four compounds total, called Σchlordanes in this report) was determined from SWAT data and is presented in Figure 1.3.4.2.2.1. Σchlordanes ranged from a low mean concentration of 0.8 ng/g dry wt. at Morse Cove, Castine, to a high mean concentration of 3.1 ng/g dry wt. at Mill Cove, Robbinston. NS&T considers Σchlordanes scores between 0 and 8 ng/g dry wt. (in blue mussel tissue) to be "low" (groupings include low, moderate, and high) on a national scale. All four SWAT clam sites sampled fall in the lower half of that low category (Kimbrough, 2008). Chlordanes are discussed in more detail in the previous Section 1.3.4.1.2, including their geographic distribution, composition, historic usage, and recent trends.

The MCDC reports a cancer and non-cancer FTALs for chlordane/nonachlor (summation of alpha-chlordane, gamma-chlordane, and trans-nonachlor) and heptachlor epoxide. MCDC reports a cancer FTAL of 17 ng/g wet wt. and a non-cancer FTAL of 130 ng/g wet wt. for chlordane/nonachlor. The SWAT clam tissue data, when summed in the same manner, shows the highest mean concentration recorded to be 0.47 ng/g wet wt., which is 2.8% of the 17 ng/g cancer FTAL. MCDC reports a cancer FTAL of 2.4 ng/g wet wt. and a non-cancer FTAL 28 ng/g wet wt. for heptachlor epoxide. The highest mean value for heptachlor epoxide in SWAT clam tissue was 0.037 ng/g wet wt., which is 1.5% of the 2.4 ng/g wet wt. cancer FTAL.

Figure 1.3.4.2.2.1: Sum of Chlordanes in SWAT Softshell Clams



1.3.4.2.3 ΣDieldrins

The summation of aldrin and dieldrin (two compounds total, called Σdieldrins in this report) was determined from SWAT clam tissue data and is presented in Figure 1.3.4.2.3.1. Σdieldrins ranged from a low mean concentration of 0.40 ng/g dry wt. at Morse Cove, Castine, to a high mean concentration of 0.61 ng/g dry wt. at Mill Cove, Robbinston. NS&T Mussel Watch considers Σdieldrins scores between 0 and 8 ng/g dry wt. in blue mussel tissue to be "low" (groupings include low, moderate, and high) on a national scale, with all three of the 2010 SWAT softshell clam sites falling in the bottom of the low category (Kimbrough, 2008). The geographic distribution, historic usage, and recent trends in dieldrins are discussed in Section 1.3.4.1.3 in relation to blue mussels.

From a human health perspective, MCDC reports cancer and non-cancer FTALs for dieldrin and separately for aldrin. MCDC reports a cancer FTAL of 1.4 ng/g wet wt. and a non-cancer FTAL of 108 ng/g wet wt. for dieldrin. The highest dieldrin mean concentration in SWAT softshell clam tissue was 0.055 ng/g wet wt., which is 3.9% of the MCDC cancer FTAL. MCDC reports a cancer FTAL of 1.3 ng/g wet wt. and a non-cancer FTAL of 65 ng/g wet wt. for aldrin. The highest aldrin mean concentration in blue mussel tissue in 2010 SWAT data was 0.021 ng/g wet wt., which is 1.6% of the MCDC cancer FTAL.

1.3.4.2.4 Σ21 Organochlorines

The summation of 21 organochlorine pesticides (as noted in Table 1.3.4.1.1) was determined from SWAT softshell clam data and is presented in Figure 1.3.4.2.4.1 (21 compounds total, called Σ21 Pesticides in this report). Σ21 Pesticides ranged from a low mean concentration of 7.65 ng/g dry wt. at Morse Cove, Castine, to a high mean concentration of 13.71 ng/g dry wt. at Fort Point Cove, Stockton Springs. Figure 1.3.4.2.4.1 compares the sum of Σ21 Pesticides at the SWAT clam sites to a recent Gulfwatch median at four clam sites (2008 data, the most recent available). All four of the SWAT sites exceeded the Gulfwatch 2008 median, 4.2 ng/g (dry weight) for Σ21 Pesticides. No Gulfwatch 85th percentile was calculated since only four Gulfwatch clam sites comprised the entire 2008 data set. Of note is the highest scoring Gulfwatch clam site, with Σ21 Pesticides of 12.0 ng/g (dry weight) at North Mill Pond, NH, which was quite similar to the highest Maine SWAT clam site.

Of the four SWAT clam sites tested, none exceeded the NS&T 2008 median, 22.9 ng/g (dry weight), for Σ21 Pesticides in shellfish, and none of the SWAT sites approached or exceeded the NS&T 85th percentile of 128 ng/g (dry weight) for Σ21 Pesticides.

From a human health perspective, the MCDC reports cancer and/or non-cancer FTALs for several individual chlorinated pesticides which fall under the heading of the Σ21 Pesticides discussed above. To compare the FTALs to SWAT data, the individual pesticide data has been expressed on wet weight basis and matched to the corresponding MCDC FTAL.

Figure 1.3.4.2.3.1: Sum of Dieldrins in SWAT Softshell Clams

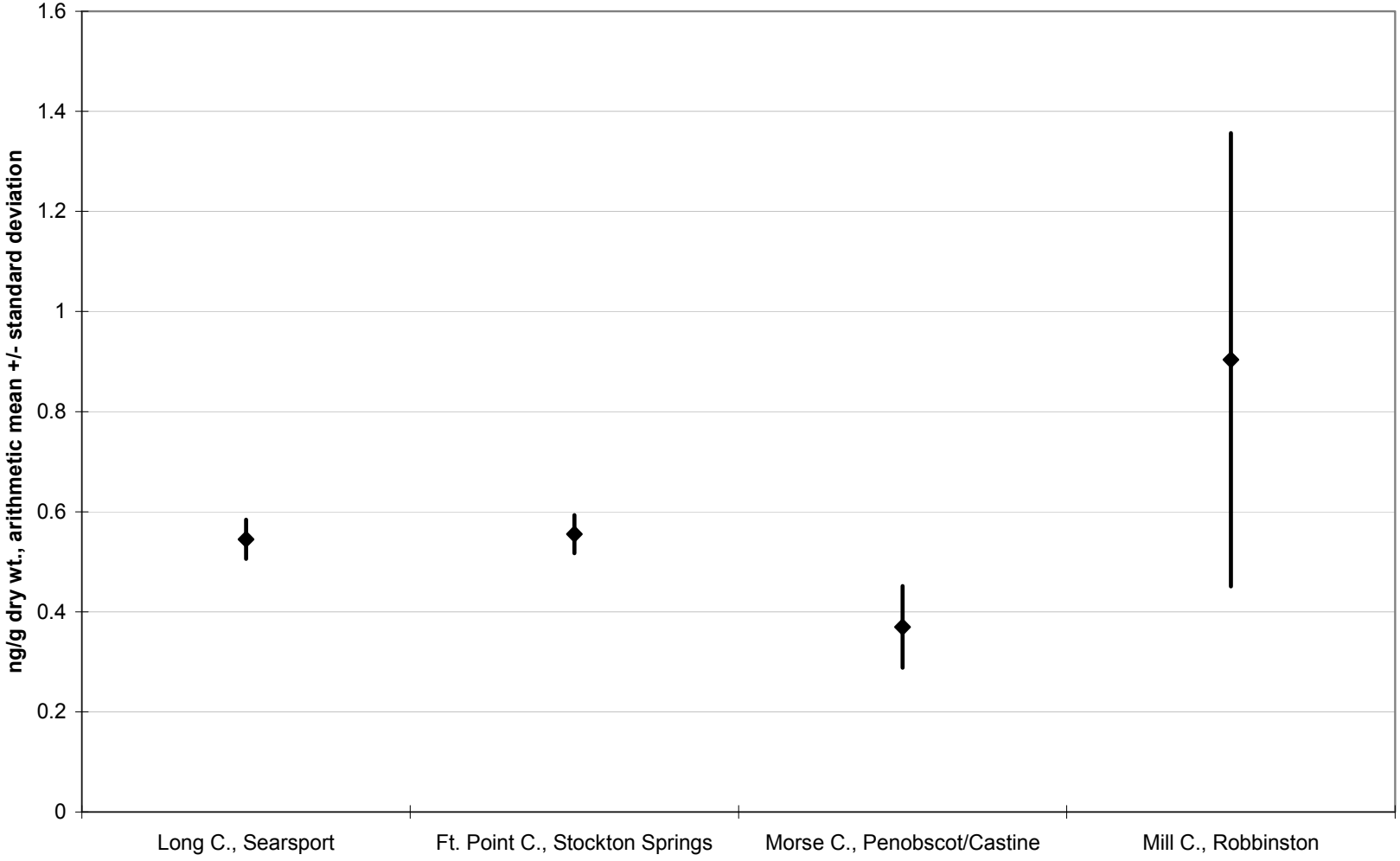
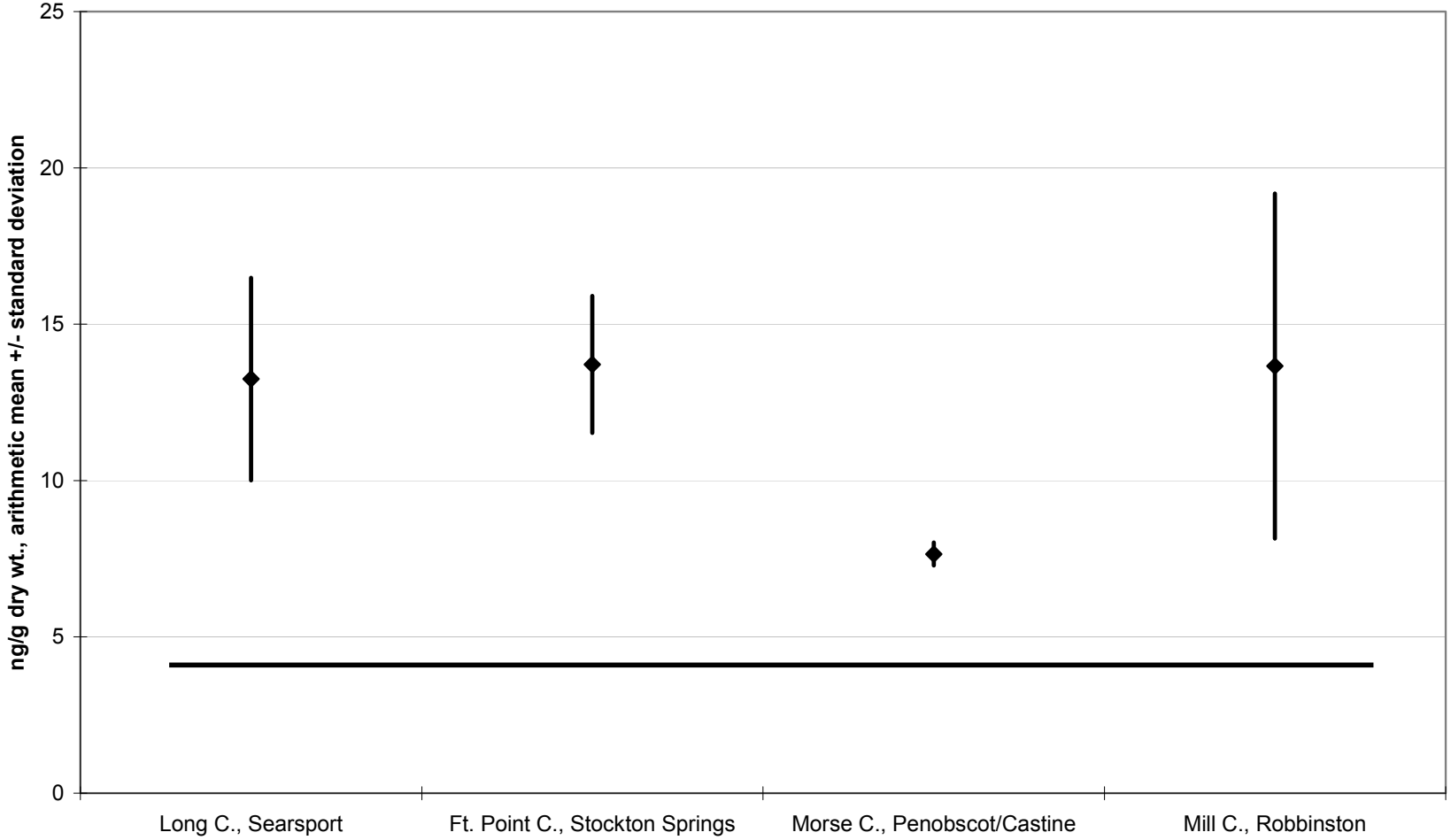


Figure 1.3.4.2.4.1: Sum of 21 Chlorinated Pesticides in SWAT Softshell Clams



Solid line = Gulfwatch 2008 Mean (four Softshell Clam Sites in NH, ME)

For hexachlorobenzene, MCDC reports a cancer FTAL of 14 ng/g wet wt. and a non-cancer FTAL of 1,728 ng/g wet wt. The highest mean hexachlorobenzene concentration in softshell clam tissue detected by SWAT was 0.6 ng/g wet wt., which is 4.3% of the more protective MCDC cancer FTAL.

For heptachlor, MCDC reports a cancer FTAL of 5 ng/g wet wt. and a non-cancer FTAL of 1,080 ng/g wet wt. The highest mean heptachlor concentration in SWAT clam tissue was 0.22 ng/g wet wt., which was 4.4% of the more protective MCDC cancer FTAL.

For mirex, MCDC reports a non-cancer FTAL of 432 ng/g wet wt. MCDC does not report a cancer FTAL for mirex. The highest mean mirex concentration in SWAT clam tissue was 0.13 ng/g wet wt., which was 0.03% of the MCDC non-cancer FTAL. All mirex results from clam tissue analyzed yielded non-detects at the detection limits utilized by the two labs.

For lindane, MCDC reports a cancer FTAL of 17 ng/g wet wt. and a non-cancer FTAL of 648 ng/g wet wt. The highest mean lindane concentration in SWAT clam tissue was 0.16 ng/g wet wt., which was 0.9% of the more protective MCDC cancer FTAL.

For endosulfan (summation of endosulfan I and II), MCDC reports a non-cancer FTAL of 12,963 ng/g wet wt. MCDC does not report a cancer FTAL for endosulfan. The highest mean endosulfan concentration in SWAT clam tissue was 0.083 ng/g wet wt., which was 0.0006% of the MCDC non-cancer FTAL. All endosulfan results from clam tissue analyzed yielded non-detects at the detection limits utilized by the two labs.

1.3.5. Dioxins, Furans, Coplanar PCBs

1.3.5.1. American Lobster

Lobster tissues from 19 NCCA/SWAT stations were tested for dioxins, furans, and coplanar PCBs by AXYS Analytical Services Ltd., Sidney, British Columbia. Dioxin/furan analysis was completed using EPA Method 1613B and GC/HRMS. Coplanar PCB congener analysis was completed using EPA Method 1668A and GC/HRMS. Lobster hepatopancreas and muscle tissues were analyzed. Table 1.3.5.1.1 presents the dioxins, furans, and coplanar PCBs for which analyses were completed.

Tissue concentrations of the individual compounds determined in the laboratory were multiplied by their toxic equivalencies and summed to construct CTEs and DTEs, coplanar and dioxin toxic equivalencies. Compounds with non-detects were assigned a concentration value at half the detection limit, which were then used to calculate the CTEs and DTEs. CTEs and DTEs were calculated on a wet weight basis for the lobster tissues, as they are principally used from a human health perspective to assess risk associated with human dietary intake of these compounds in food. Since the food, lobster meat, is eaten in a wet weight form, the CTEs and DTEs were calculated in the wet weight format to provide the best prediction of CTE and DTE intake.

Table 1.3.5.1.1: SWAT Dioxins, Furans and Coplanar PCBs

Furans and Dioxins	Coplanar PCBs
2,3,7,8-TCDF	PCB-77
1,2,3,7,8-PECDF	PCB-81
2,3,4,7,8-PECDF	PCB-126
1,2,3,4,7,8-HXCDF	PCB-105
1,2,3,6,7,8-HXCDF	PCB-114
2,3,4,6,7,8-HXCDF	PCB-118
1,2,3,7,8,9-HXCDF	PCB-123
1,2,3,4,6,7,8-HPCDF	PCB-156/157
1,2,3,4,7,8,9-HPCDF	PCB-167
OCDF	PCB-169
2,3,7,8-TCDD	PCB-189
1,2,3,7,8-PECDD	
1,2,3,4,7,8-HXCDD	
1,2,3,6,7,8-HXCDD	
1,2,3,7,8,9-HXCDD	
1,2,3,4,6,7,8-HPCDD	
OCDD	

Figure 1.3.5.1.1 shows CTEs and DTEs calculated for lobster hepatopancreas tissue at the 19 lobster stations sampled in 2010. The stations are organized from left to right in west to east order along the Maine coast. Summed (dioxin) DTEs comprise the base of each bar (shown in blue), with the top of each bar comprised of the summed (coplanar PCB) CTEs (shown in purple). Since the toxicities of the dioxins and furans and the coplanar PCBs are additive, the DTEs and CTEs are shown in one bar that adds their toxicity for comparison to the fish tissue action level.

Summed DTEs/CTEs in hepatopancreas ranged from 4.88 to 28.03 pg/g at South Bartlett Island, Blue Hill Bay, and Cousins Island Sound, Casco Bay, respectively. The Maine CDC has produced a fish tissue action level (FTAL) for dioxins, furans and coplanar PCBs (DTEs/CTEs) for recreationally caught finfish fillet. Maine CDC has recommended that this 0.4 pg/g (or parts per trillion) FTAL be utilized to compare lobster tissues to determine acceptability for human consumption. Consistent with prior hepatopancreas data, the 2010 data confirms that consumption of hepatopancreas should be avoided as all stations sampled had DTEs/CTEs well above the 0.4 pg/g FTAL. This FTAL assumes a meal size of 8 ounces (227 g), which may be quite high for hepatopancreas (requiring consumption of hepatopancreas from many lobsters in one meal). However, DTEs/CTEs in hepatopancreas are so high that recalculating the risk assessment with a smaller meal size will not change the recommendation that hepatopancreas consumption should be avoided.

Figure 1.3.5.1.2 shows CTEs and DTEs calculated for lobster muscle tissue at the 19 lobster stations sampled in 2010. The stations are organized from left to right in west to east order along the Maine coast. Summed (dioxin) DTEs comprise the base of each bar (shown in blue), with the top of each bar comprised of the summed (coplanar PCB) CTEs (shown in purple). Since the toxicities of the

dioxins and furans and the coplanar PCBs are additive, the DTEs and CTEs are shown in one bar that adds their toxicity for comparison to the fish tissue action level.

Summed DTEs/CTEs in muscle ranged from 0.096 to 0.188 pg/g at South Bartlett Island, Blue Hill Bay, and Belfast Bay, respectively. Even the highest of these levels is less than half of the 0.4 pg/g FTAL, indicating that lobster muscle tissue contains considerably lower concentrations of DTEs/CTEs when compared to hepatopancreas and that lobster muscle tissue is safe to eat.

Hepatopancreas tissue appears to have a higher percentage of its overall toxicity contributed by CTEs (from coplanar PCBs) than does the muscle tissue. This may be due to sequestration of the coplanar PCBs in the hepatopancreas. Both DTEs and CTEs in hepatopancreas appeared to be higher in Casco Bay stations than on other areas of the coast. In muscle tissue, Casco Bay sites appeared to have DTEs that are similar to those from the rest of the Maine coast, while some Casco Bay muscle tissue CTEs appear to slightly higher than coast-wide muscle CTEs.

Figure 1.3.5.1.1: Dioxin and Coplanar PCB DTEs and CTEs (Toxic Equivalencies) in SWAT Lobster Hepatopancreas

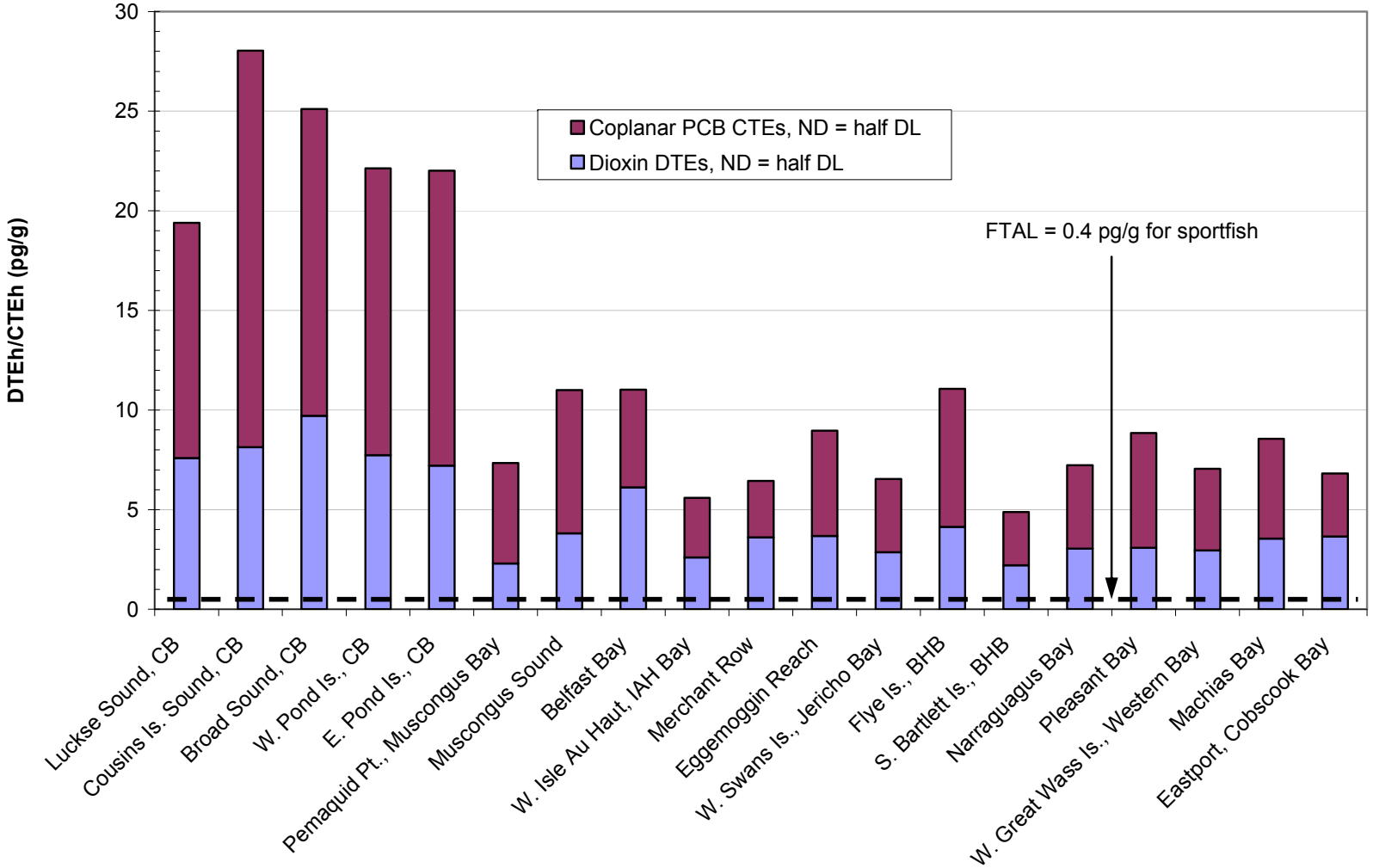
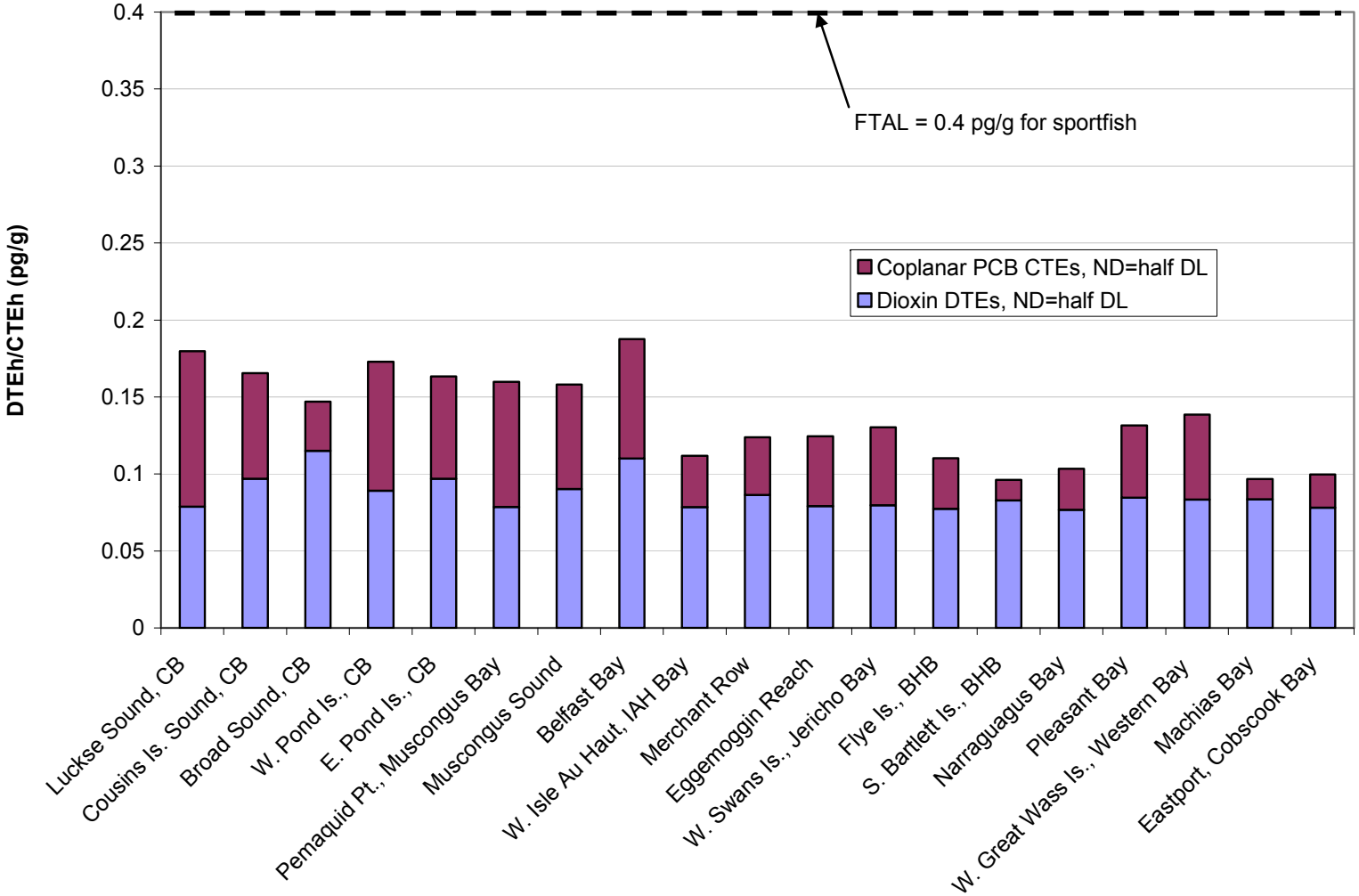


Figure 1.3.5.1.2: Dioxin and Coplanar PCB DTEs and CTEs (Toxic Equivalencies) in SWAT Lobster Muscle



1.4 REFERENCES

Buchholtz ten Brink, M., F.T. Manheim, J.C. Hathaway, S.H. Jones, L.G. Ward, P.F. Larsen, B.W. Tripp and G.T. Wallace. 1997. Gulf of Maine contaminated Sediment Database: Draft Final Report. Regional Marine Research Program for the Gulf of Maine, Orono, ME.

Kimbrough, K. L., W. E. Johnson, G. G. Lauenstein, J. D. Christensen and D. A. Apeti. 2008. An Assessment of Two Decades of Contaminant Monitoring in the Nation's Coastal Zone. Silver Spring, MD. NOAA Technical Memorandum NOS NCCOS 74. 105 pp.

Krahforst, C., B. Arter, J Aube, C. Bourbonnaise-Boyce, G. Brun, G. Harding, P. Hennigar, D. Page, S. Jones, S. Shaw, J. Stahlnecker, J. Schwartz, D. Taylor, B. Thorpe, P. Vass, P. Wells. 2009. Gulfwatch 2006 Data Report: Sixteenth Year of the Gulf of Maine Environmental Monitoring Program. Gulf of Maine Council on the Marine Environment.

LeBlanc, Lawrence A., Christian Krahforst, Jamie Aube, Cynthia Bourbonnaise-Boyce, Guy Brun, Gareth Harding, Peter Hennigar, David Page, Stephen Jones, Susan Shaw, James Stahlnecker, Jack Schwartz, Darrell Taylor, Bruce Thorpe, Peter Vass, and Peter Wells. 2009. Gulfwatch 2008 Data Report: Eighteenth Year of the Gulf of Maine Environmental Monitoring Program. Gulf of Maine Council on the Marine Environment.

Neff, J.M., Stout S.A., Gunster D.G. 2005. Ecological risk assessment of PAHs in sediments. Identifying sources and toxicity. Integrated Environmental Assessment and Management 1:22-33.

Sanudo-Wilhemy, S.A. and A.R. Flegal, 1992. Anthropogenic Silver in Southern California Bight: A New Tracer of Sewage in Coastal Waters. Environ. Sci. Technol. 26:2147-2151.

Sowles, J., R. Crawford, P. Hennigar, et al., 1997. Gulfwatch Project Standard Procedures: Field and Laboratory, Gulfwatch Implementation Period 1993-2001. Gulf of Maine Council on the Marine Environment.

2.0 LAKES MODULE

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2.1 MERCURY IN LAKE FISH

2.1.1 Introduction

Fish were collected from Maine lakes to meet the objectives of the Maine Center for Disease Control and Prevention (MCDC) and DEP. Lakes and species to be sampled were selected so that all samples will be useful for both agencies.

As requested by MCDC, sampling for the coming year was geared primarily toward filling data gaps identified in the sampling network and establishing a current baseline data set for mercury. Data were also requested from as many of the lakes sampled as part of EPA's REMAP study in 1992-93 such that current mercury levels can also be compared to historical mercury levels from similar locations in an attempt to determine any trending in the data sets.

Secondly, DEP, in collaboration with researchers at the University of Maine, collected fish from lakes to try to determine factors that influence mercury accumulation in fish. From the literature the most important factors that may affect mercury concentrations in fish seem to be drivers of lake trophic status (i.e., nitrogen, phosphorus, iron, aluminum, pH), lake mercury concentrations, and watershed characteristics. From the list of REMAP lakes and other lakes with mercury concentrations in fish from 10 years ago or longer, DEP selected lakes whose characteristics included combinations of the range of variables that are correlated with these factors. Maximum depth, average dissolved organic carbon (DOC), and epilimnetic total phosphorus (TP) concentrations were trisected yielding 27 possible combinations. Some of these factor combinations did not have representation in the existing dataset of 216 lakes for which we had filet mercury, DOC and TP data, so we targeted other white perch lakes for which we had DOC and TP data. From the resulting set of 443 lakes, we selected 102 lakes to be sampled and prioritized them according to fish tissue sampling history. With limited staff time for sampling, we targeted half of the lakes for 2010, and expect to complete the sampling in 2011. Lakes having white perch were of particular interest because this species is the most common one for which we have data.

From each lake, 10 fish were collected. Species included the species previously collected if possible and white perch, black bass, chain pickerel, lake trout, or yellow perch in order of preference. These were the species having the highest mercury concentration in the REMAP data set and are, for the most part, game fish caught and eaten by Maine anglers. A possible exception is yellow perch, which are not consumed by many anglers, but are common, are consumed by common loons and other piscivorous birds, and have been used in ecological risk analysis in Maine and the rest of New England. Water quality and sediment data were collected by DEP's lakes staff during the August 'baseline' period.

Studies in 2008 and 2009 were directed towards investigation of the use of biopsy samples of fish tissue analyzed for mercury by the Direct Mercury Analyzer (DMA80) housed at the Sawyer Environmental Research and Chemistry Lab (SERCL) at the University of Maine. The benefits include lower cost, ability to work with a Maine lab, and potentially non-lethal sampling of the fish in the future. Filets from the same fish were also analyzed by our commercial lab, AXYS Analytical Services. When the results were compared, there was no significant difference ($p<0.05$) in mean concentrations for all three groups of ten fish each between labs, as reported in the 2009

SWAT report. The mean concentration in the group with the highest mercury levels, the smallmouth bass from the Androscoggin River (0.74 ug/g) from AXYS, however, appeared lower than in the SERCL analyzed fish (0.88 ug/g). The reason for the discrepancy may be that of partial desiccation of the SERCL samples. Fish may loose moisture during processing and freezing such that the reported concentration may not be an accurate wet weight concentration, but rather a partially dehydrated and unknown fish concentration. The biopsy samples may be even more prone to desiccation than whole fish or filets. Biopsy samples are collected with a 4 mm diameter biopsy punch typically collecting <100 mg of tissue. Consequently, there is a relatively large surface to volume ratio that promotes even greater desiccation of the biopsy sample.

To avoid this problem, we proposed weighing biopsies from fish soon after capture before they could dry significantly, and then freezing them in cryovials. We would use these weights to calculate the final wet weight concentrations, thereby avoiding the effects of any weight loss due to dessication. One issue with this approach was to deteremine what percent, if any, of mercury may be left adsorbed to the cryovial when it was emptied into the quartz boat used in the DMA 80. Another issue was whether the new cryovials contained any mercury that would be leached and transferred to the quartz boat. To answer these questions, SERCL conducted a study described in the next section.

2.1.2. SERCL Study

To determine the amount of any adsorbtion or leaching from the vials and desiccation of fish tissue, SERCL conducted the following study.

1. Collected a total of 10 replicate biopsy samples from the same fish and freeze in separate cryovials.
2. Removed the biopsies from each tube, plus any liquid that drips out easily.
3. Added 2 ml of 2% bromine monochloride (preservative / oxidant) to all 10 vials and 10 new emptied vials to capture available mercury.
4. Diluted 1 ml to 50 ml (required for analysis) - leaves 1 ml for a rerun if needed.
5. Analyzed all 20 vials and biopsy samples. Detection limit was 50 pg of Hg in the vial.
6. Calculated % mercury left adsorbed to vial.

The result was that the 10 replicate biopsies had low variance (CV=1.65%) (Table 2.1.1). The amount of mercury leached from 10 new vials was very low (average 0.06%). The tissue mercury left in the vials was also very low (average 0.47 %). Consequently, it appeared the issue of desiccation could be surmounted.

Table 2.1.1. SERCL study results

Replicate #	Hg leached from blank vials (ng)	Hg leached from blank vials % of fish Hg	Fish Sample ID	Hg left in used vials (ng)	Hg in biopsy samples (ng)	tissue Hg left in vials (ng)	tissue Hg left in vials % of fish Hg	Hg fish concentration ug/g
1	0.171	0.15	WHP 11-1	0.785	115.2	0.726	0.63	1.019
2	0.222	0.27	WHP 11-2	0.828	82.8	0.769	0.93	1.010
3	0.047	0.05	WHP 11-3	0.364	98.4	0.305	0.31	1.036
4	0.036	0.04	WHP 11-4	0.486	102.2	0.427	0.42	1.033
5	0.021	0.04	WHP 11-5	0.206	57.5	0.147	0.25	1.027
6	0.046	0.06	WHP 11-6	0.206	77.2	0.147	0.19	1.016
7	0.013	0.01	WHP 11-7	0.630	191.3	0.571	0.30	1.034
8	0.010	0.01	WHP 11-8	0.449	118.1	0.390	0.33	0.984
9	0.015	0.01	WHP 11-9	1.228	140.8	1.169	0.83	1.043
10	0.012	0.00	WHP 11-10	1.486	269.8	1.427	0.53	1.026
MEAN	**0.059**	**0.06**		**0.667**	**125.3**	**0.608**	**0.47**	**1.023**
STD								**0.017**
SE								**0.005**
CV %								**1.65**

2.1.3. Methods

In 2010, 50 samples of 10 fish from a total of 45 lakes (for all but 3 lakes where N<10) were analyzed at SERCL by the DMA80. From these lakes, 22 samples of 10 fish from a total of 19 lakes were also sent to AXYS for analysis of mercury concentrations in filets for comparison to the biopsy samples. To avoid a potential bias due to desiccation, fish were captured and kept in a plastic bag on ice or the refrigerator until biopsy samples were collected and weighed the same day or the next morning. The biopsy samples were then frozen in 2 ml cryovials. At the lab the contents of the cryovial were transferred to the DMA 80 quartz sample boat, where the entire mass of mercury was measured. The intent was that the original wet weight concentration would then be calculated from the mass of mercury and original wet weight. However, since a small amount of tissue was left behind in the some of the cryovials, the lab reweighed the tissue and used the new wet weight to calculate results.

2.1.4. Results

Although calculation of mercury concentrations based on the weight of the tissue removed from the cryovial does not account for desiccation, the mean relative percent difference (RPD) between mercury concentrations in fish analyzed by the two labs was only -1.8% (Table 2.1.2), which includes desiccation, tissue left behind in the cryovial, and lab variability. The maximum RPD for all lake means (22%) was well within the standard quality assurance limit (30%). If desiccation was significant, then mercury concentrations would be higher in the SERCL results than in the AXYS results. In fact, mean concentrations were higher in the SERCL samples only in 9 lake/species samples, while lower in 7 lake/species samples and the same as AXYS in 6 lake/species samples, suggesting no bias due to desiccation. Furthermore, when the SERCL mercury concentrations were adjusted for sample weight loss attributed to desiccation, there was poorer correspondence with

Table 2.1.2. Mercury concentrations in fish from Maine lakes and Ponds in 1990s and 2010

LAKES	MIDAS	SPECIES	1990s HG ug/g	2010 AXYS HG ug/g	2010 SERCL HG ug/g	RPD AXYS/SERCL	2010-1990s %
Russell P	2022	BKT			0.15		
Ben Annis P	2282	BLC	0.18	0.19	0.19	0.0	6
Hermon P	2286	BLC		0.37	0.41	-10.3	
Cobbosseecontee L	5236	BNT	0.29		0.21		-28
Dutton P	4872	LMB			0.48		
Little Medomak P	5694	LMB		0.40	0.37	7.8	
North P	5690	LMB		0.61	0.58	5.0	
Pease P	5198	LMB	0.36		0.48		33
Meddybemps L	177	SMB	0.32	0.65	0.65	0.0	103
Pleasant River L	1210	SMB			1.35		
Raymond P	3690	SMB			0.44		
Sheepscot P	4896	SMB	1.25	1.28	1.30	-1.6	4
Alamoosook L	4336	WHP			0.72		
Cedar L	2004	WHP	0.91	0.83	0.87	-4.7	-4
China L	5448	WHP	0.22	0.20	0.18	10.5	-18
Cobbosseecontee L	5236	WHP	0.60		0.40		-33
Crystal P	3626	WHP	0.41		0.56		37
Crystal P	3452	WHP			1.10		
Damariscotta L	5400	WHP			0.53		
Dyer Long P	5386	WHP			0.50		
East P	5349	WHP			0.14		
Forest L	3712	WHP	0.48	0.58	0.58	0.0	21
Great Moose L	2590	WHP	0.66	0.60	0.71	-16.8	8
Hermon P	2286	WHP		0.46	0.46	0.0	
Highland L	3734	WHP	0.67		0.49		-27
Horseshoe L	4788	WHP	0.80	0.98	1.11	-12.4	39
Jacob Buck P	4322	WHP	0.77		0.79		3
Kingsbury P	262	WHP			0.73		
Lermond P	4800	WHP			0.35		
Little Sebago L	3714	WHP	0.35		0.36		3
Lobster L	2948	WHP			1.02		
Meddybemps L	177	WHP		0.70	0.88	-22.8	
Nicatous L	4766	WHP	0.59	0.95	0.97	-2.1	64
Pattee P	5458	WHP	0.38	0.55	0.53	3.7	39
Pease P	5198	WHP			0.29		
Pennesseewasee L	3434	WHP		0.51	0.51	0.0	
Rocky P	4330	WHP	0.68		0.37		-46
Salmon L	5352	WHP	0.31		0.21		-32
Sebois L	954	WHP		0.76	0.75	1.3	
Sennebec P	5682	WHP	0.41		0.60		46
Sheepscot P	4896	WHP		1.48	1.50	-1.3	
Threemile P	5416	WHP	0.50	0.38	0.35	8.2	-30
Togus P	9931	WHP	0.15		0.25		67
Upper Middle Branch P	4492	WHP	0.91		0.94		3
Webber P	5408	WHP	0.24	0.20	0.20	0.0	-17
Webber P	4857	WHP			0.68		
West Grand L	1150	WHP		0.90	0.99	-9.5	
Wilson L	3920	WHP	0.56		0.59		5
Woodbury P	5240	WHP		0.44	0.42	4.7	
Little Purgatory P	5250	YLP	0.23		0.20		-13
					MEAN	**-1.8**	

fish at least 15mm longer than those from other time period

AXYS mercury concentrations than the concentrations reported by SERCL.

The concentrations of mercury exceeded MCDC's fish tissue action level (FTAL=0.20 ug/g) for mercury in the means for fish in all but 6 lakes (Figure 2.1.2). Four of these lakes were for small brook trout from Russell Pond, black crappie from Ben Annis Pond, white perch from China Lake, and yellow perch from Little Purgatory Pond. White perch from the other two lakes, East Pond and Webber Pond, were larger, but both ponds have algal blooms which generally results in lower mercury concentrations in fish.

For trends analysis, in 2010, we collected the same species of fish from 26 lakes that had been previously sampled at least 10 years ago in 1990s. There appeared to be no overall trend of statewide, since, of those 26 lakes, mean fish concentrations appeared lower in 10 lakes but higher in 16 lakes (Table 2.1.2). Differences from 2010 to 1990s ranged from -46% to 105% and some would be too small to be significant. Of those 10 lakes indicating a decline in 2010, fish sizes were smaller (by at least 15 mm) in 4 lakes, which might explain the lower concentrations in 2010, but to the contrary were in fact higher in 3 lakes and no different in 3 lakes. Of the 16 lakes indicating an increase in 2010, fish sizes were larger (by at least 15 mm) in 5 lakes, which might explain the higher concentrations in 2010, but to the contrary were in fact lower in 4 lakes and no different in 7 lakes. Although fish sizes explain some of the differences in mercury concentrations between 1990s and 2010, there were more lakes where sizes do not explain differences between time periods. Differences, therefore, are due to other factors including random variance and small sample sizes.

Even though there were differences between time periods, data from the two labs in 2010 tracked the 1990s data confirming lakes and species with high concentrations and those with low concentrations. Nevertheless, there was some variability in mercury levels in fish among the lakes and ponds. In 2010, DEP began a complementary multi-year project investigating factors, such as mercury levels in water and sediments, lake trophic status, lake and watershed hydrologic and morphometric characteristics, which may influence mercury levels in fish.

3.0 RIVERS AND STREAMS MODULE

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3.1 AMBIENT BIOLOGICAL MONITORING

3.1.1 Background

As part of the SWAT program, DEP's Biological Monitoring Unit evaluates benthic macroinvertebrate communities of Maine streams and rivers to determine if they are potentially impaired by toxic contamination. For reasons of comparability, a small number of unimpaired reference sites are also evaluated. Benthic macroinvertebrates are animals without backbones that can be seen with the naked eye and live on the stream bottom, such as mayflies, stoneflies, caddisflies, crayfish, snails, and leeches. In 2010, we evaluated the condition of 42 sample locations, primarily in the Southern Maine River basin.

The Biological Monitoring Unit uses a multivariate statistical model to analyze a benthic macroinvertebrate sample and predict if a waterbody is attaining the biological criteria associated with its statutory class (DEP Rule Chapter 579). If a waterbody does not meet minimum state aquatic life criteria, Class C, then the model class is predicted as Non-Attainment (NA). Classes AA and A are treated the same in the model. Final decisions on aquatic life attainment of a waterbody are made accounting for factors that may allow adjustments to the model outcome. This is called the final determination.

Table 3.1.1 summarizes the results of biological monitoring activities for the 2010 SWAT Program, sorted by waterbody name. Column headings of Table 3.1.1 are described below:

- *Station* – Since waterbodies are sometimes sampled in more than one location, each sampling location is assigned a unique "Station" number.
- *Log* – Each sample event is assigned a unique "Log" number.
- *Potential sources of pollution.*
- *Statutory Class* – The state legislature has assigned a statutory class, either AA, A, B, or C, to every Maine stream and river. Class AA and A waterbodies shall support a "natural" biological community. Class B waterbodies shall not display "detrimental changes in the resident biological community". Class C waterbodies shall "maintain the structure and function of the resident biological community".
- *Final determination* – The final decision on aquatic life attainment of a waterbody; this decision accounts for factors that may allow adjustments to the model outcome. An 'NA' (Non-attainment) indicates that the sample did not meet the minimum Class C criteria. An 'I' (Indeterminant) indicates that a final decision could not be made based on the aquatic community collected.
- *Attains Class* – "Yes" is given if the final determination is equal to or exceeds the Statutory Class. A Class B stream, for example, would receive a "Yes" if its Final determination was either A or B. "No" is given if a stream does not attain its Statutory Class. A Class B stream, for example, would receive a "No" if its final determination was either C or NA.
- *Probable Cause* – The probable cause column lists potential stressors to benthic macroinvertebrate communities, based on best professional judgment. In some cases, a probable cause may not be related to toxic pollution but instead to other factors.

Field and water chemistry data for each sampling event (where available) are given in Table 3.1.2

and 3.1.3, respectively. The data from tables 3.1.1 to 3.1.3 is also summarized in reports for each sampling event, known as Aquatic Life Classification Attainment Reports, which are available in electronic format with the web version of this report. Continuous water temperature data are given in Figure 3.1.1. The attainment history of sampling stations prior to 2010, where available, is given in Table 3.1.4.

For more information about the Biological Monitoring Unit, please e-mail us at biome@maine.gov or visit our web site: http://www.state.me.us/dep/blwq/docmonitoring/biomonitoring/index.htm. The Data and Maps page of this website provides access to station information and available data via Google Earth.

3.1.2 Results Summary

The Biological Monitoring Unit concentrated its sampling in 2010 in Southern Maine. Forty-two stations were sampled under the SWAT Program (Table 3.1.1).

At this time (June 10, 2011), forty-one stations have been analyzed for aquatic life attainment with twenty-six stations in attainment of their statutory class. In fact, nine stations exceeded their assigned class. So far no licensing / relicensing issues have been found in waterbodies sampled below municipalities or industries. The streams that did not attain their statutory class were located on small urban systems; summaries on these streams are found below.

Birch Stream – Bangor Station 312
Birch Stream is located below Bangor International Airport and the Airport Mall and much of the headwaters of the stream have been altered through the years. The stream did not attain the minimum Class C criteria for aquatic life. The stream supported a good number of organisms with a moderate number of different taxa. However, sensitive taxa were present in very low numbers. Eighty percent of the community consisted of tolerant snails. Temperature, specific conductance, and total dissolved solids were all high and indicative of an urban system (Table 3.1.2). Deicer continues to impact the benthic community as well as an altered hydrology which has affected the habitat and stream bank stability. The stream bottom condition has improved as a result of efforts to contain the deicer. Sewage fungus was not present in 2010. The stream has been listed on our 303(d) list and is a designated TMDL stream; it has not attained class since first being sampled in 1997 (Table 3.1.4).

Frost Gulley – Freeport Station 303
Frost Gulley is unique as it is one of a few systems in southern Maine whose statutory class is Class A. It attained Class A aquatic life criteria in 3 of 4 previous sampling events (see Table 3.1.4). In 2010, sensitive organisms were present but were not as diverse as you would typically see in a Class A system. The stream banks show some erosion indicating some altered hydrology in the system. We will continue to monitor the stream in the future.

Goosefare Brook – Saco Station 48
The station is below the Great Heath in Saco which is highly acidic during certain times of the year and its discharge may negatively influence the community. In addition, the flow in the system was not measurable.

Goosefare Brook – Saco Station 271
The number of organisms present in the sample was very low and a determination of class attainment could not be made. However, specific conductance was very high (Table 3.1.2) indicating possible urban NPS. The station will be resampled in the near future to determine if the low numbers found were due to a specific stressor.

Kimball Brook – South Portland Station 795
The number of organisms present in the sample was very low and there were no sensitive organisms present. The stream was covered by an iron floc and had a distinct sewage smell. Conductivity was very high (Table 3.1.2) at sampler retrieval. Although the sample did not have minimum numbers to run through the model it was determined using Professional Judgment that the stream did not attain the minimum Class C criteria for aquatic life.

Long Creek – South Portland Stations 409, 411, 414, 415, and 752
These stations did not attain the minimum Class C criteria for aquatic life. Generic diversity and the numbers of sensitive taxa present were very low at all locations. The top three in dominant taxa in all stations were very tolerant organisms that made up between 40 and 80% of the communities sampled. The stream banks were heavily cut and there was a great deal of accumulation of debris and sand in the system indicating altered hydrology. Specific conductance was very high at all stations (Table 3.1.2) indicating possible urban NPS.

Red Brook – Scarborough Station 219
The number of organisms collected in the sample was very low and a determination of class attainment could not be made. Flow was very low during the sampling period. The station will be sampled again in the near future.

South Branch Long Creek – South Portland Station 753
This station did not meet the minimum Class C criteria for aquatic life. The number of sensitive taxa were very low and over 70% of the community was made up of three taxa of tolerant midge larvae. Specific conductance was very high (Table 3.1.2) indicating possible urban NPS.

Tannery – Gorham Station 474
This station did not attain the minimum Class C criteria for aquatic life. Generic diversity and number of sensitive taxa were very low. Over 40% of the aquatic community consisted of a tolerant caddisfly. The habitat was degraded (stream banks were eroded and the stream bottom was covered with silt) indicating altered hydrology. The stream banks were eroded and the bottom of the stream was covered with silt. The stream attained Class B aquatic life criteria in 2000 and 2005 (Table 3.1.4). Follow up sampling will occur to verify that Class B criteria are not met.

Trout Brook – South Portland Station 675
This station did not attain the minimum Class C criteria for aquatic life. Generic diversity and numbers of sensitive taxa were very low. The specific conductance during sampling was very high and further investigation will be undertaken to determine if this is due to salt intrusion from ground water. Specific conductance at a lower station in the watershed is known to be affected by tidal fluctuations.

West Brook – Biddeford Station 797

The diversity of sensitive taxa was low in West Brook although the Generic Richness of the community was high. The temperature at the time of sample placement was high and specific conductance somewhat elevated (Table 3.1.2). This station is located below Wilcox Pond and the outlet discharge of the pond is probably reducing the number of sensitive taxa present due to high temperatures. West Brook attained Class B aquatic life criteria in 2005 (Table 3.1.4).

Table 3.1.1. 2010 SWAT Benthic Macroinvertebrate Biomonitoring Results

Waterbody	**Town**	**Station**	**Log**	**Potential sources of pollution[1]**	**Statutory Class/ Final Determina-tion**	**Attains Class?[2]**	**Probable Cause[1]**
Androscoggin River	Brunswick	954	1956	Industrial / Municipal	C / B	Yes	
Androscoggin River	Brunswick	955	1977	Industrial / Municipal	C / C	Yes	
Androscoggin River	Brunswick	956	1978	Industrial / Municipal	C / C	Yes	
Back Brook	Limington	107	1961	Reference	B / A	Yes	
Birch Stream	Bangor	312	1923	Urban NPS / Airport deicer	B / NA	No	NPS Toxics
Branch Brook	Sanford	106	1952	NPS / Airport	A / A	Yes	
Brown Brook	Limerick	445	1965	Urban NPS / Impoundment	B / B	Yes	
Frost Gulley	Freeport	303	1920	Urban NPS	A / B	No	NPS?
Frost Gulley	Freeport	304	1921	Urban NPS	A / A	Yes	
Goosefare Brook	Saco	48	1958	Control	B / C	No	Natural – Great Heath
Goosefare Brook	Saco	271	1959	Urban NPS / In Place Contamination	B / I	No	Low Numbers - Resample
Great Works River	North Berwick	439	1934	NPS	B / B	Yes	
Kennebunk River	Kennebunk	270	1974	Urban NPS / Turnpike	B / B	Yes	
Kimball Brook	South Portland	795	1927	Urban NPS	C / NA	No	NPS Toxics / Habitat
Little Ossippee River	Limington	446	1964	Industrial / Urban NPS / Impoundment	B / B	Yes	
Little Ossippee River	Limerick	447	1963	Reference	B / A	Yes	
Little River	Lebanon	440	1936	NPS	B / A	Yes	
Long Creek	Westbrook	411	1942	Urban NPS	B / NA	No	NPS Toxics / Habitat
Long Creek	South Portland	570	1944	Urban NPS	C / C	Yes	

[1] NPS, non-point source pollution.
[2] This field is completed only for stations for which sampling results have been obtained as of the time of this report.

Table 3.1.1. 2010 SWAT Benthic Macroinvertebrate Biomonitoring Results (continued)

Waterbody	Town	Station	Log	Potential sources of pollution[1]	Statutory Class/ Final Determina-tion	Attains Class?[2]	Probable Cause[1]
Long Creek	South Portland	752	1932	Urban NPS	C / NA	No	NPS Toxics / Habitat
Long Creek	South Portland	415	1926	Urban NPS	C / NA	No	NPS Toxics / Habitat
Long Creek (Blanchette Brook)	Westbrook	409	1943	Urban NPS	B / NA	No	NPS Toxics / Habitat
Long Creek (North branch)	South Portland	414	1933	Urban NPS	C / NA	No	NPS Toxics / Habitat
Merriland River	Wells	436	1975	Reference	A / A	Yes	
Merriland River	Wells	437	1976	NPS	A / A	Yes	
Mill Brook	Porter	698	1962	Reference	B / A	Yes	
Mousam River	Sanford	259	1951	Urban NPS / Landfill	C / C	Yes	
Mousam River	Sanford	390	1954	Control	C / B	Yes	
Mousam River	Sanford	391	1955	Municipal	C / B	Yes	
Presumpscot River	Westbrook	72	1929	Municipal / Industrial / Urban NPS	C / C	Yes	
Red Brook	Scarborough	219	1968	Landfill / NPS	C / I	No	Low numbers - Resample
Red Brook	South Portland	412	1930	NPS	C / C	Yes	
Red Brook	Scarborough	413	1967	NPS	C / C	Yes	
Salmon Falls River	Berwick	52	1935	Municipal			
Sheepscot River	Whitefield	74	1919	Long Term Monitoring	AA / A	Yes	
South Branch Long Creek	South Portland	753	1925	Urban NPS	C / NA	No	NPS Toxics/ Habitat
Tannery Brook	Gorham	474	1970	NPS	B / NA	No	NPS Toxics/ Habitat
Tannery Brook	Gorham	562	1969	NPS	B / A	Yes	
Thacher Brook	Biddeford	451	1960	Urban NPS	B / A	Yes	
Trout Brook	South Portland	675	1928	Urban NPS	C / NA	No	NPS Toxics/Salt intrusion
West Branch Sheepscot River	China	268	1918	Long Term Monitoring	AA / A	Yes	
West Brook	Biddeford	797	1957	Urban NPS	B / C	No	

[1] NPS, non-point source pollution.
[2] This field is completed only for stations for which sampling results have been obtained as of the time of this report

Table 3.1.2. 2010 SWAT Field Data

Waterbody	Station	Sampler Deployment					Sampler Retrieval				
		Date	Temp*	DO*	SPC*	pH	Date	Temp*	DO*	SPC*	pH
			Deg C	mg/L	uS/cm	STU		Deg C	mg/L	uS/cm	STU
Androscoggin River	954	7/27/2010	25	7.2	90		8/24/2010	22.3	7.3	79	
Androscoggin River	955	7/27/2010	24.8	8.4	95		9/8/2010	22.4	8.1	104	
Androscoggin River	956	7/27/2010	25.2	7.9	92		9/8/2010	22.8	7.9	103	
Back Brook	107	7/26/2010	16.8	8.3	58		8/25/2010	14.4	8.5	53	6.33
Birch Stream	312	7/9/2010	25.7	9.8	540		8/12/2010	20.7	8.6	450	7.96
Branch Brook	106	7/21/2010	17.4	7.9	69		8/23/2010	15.4	7.8	65	6.72
Brown Brook	445	7/26/2010	25.7	7.9	72		8/25/2010	20.4	6.9	57	6.85
Frost Gulley Brook	303	7/8/2010	20.6	8.3	275		8/11/2010	19.4	8.2	265	7.41
Frost Gulley Brook	304	7/8/2010	21.1	8.3	312		8/11/2010	19.9	8.3	305	7.22
Goosefare Brook	48	7/22/2010	20.1	7.1	87		8/24/2010	16.3	6.4	136	6.65
Goosefare Brook	271	7/22/2010	20.6	6.7	397		8/24/2010	16.1	7.3	565	6.81
Great Works River	439	7/14/2010	22	8.1	81		8/17/2010	21.7	8.3	101	6.95
Kennebunk River	270	7/28/2010	24.6	10	85	8.03	8/31/2010	22.5	9.4	95	7.43
Kimball Brook	795	7/12/2010	23	7.4	266		8/13/2010	21.1	6.8	410	
Little Ossippee River	446	7/26/2010	25.2	7.5	71		8/25/2010	21.1	6.5	59	6.7
Little Ossippee River	447	7/26/2010	22.1	9.3	63		8/25/2010	17.1	8.6	51	7.25
Little River	440	7/14/2010	21.7	7.9	71		8/17/2010	21.4	8.2	89	6.98
Long Creek	411	7/19/2010	23.7	6.52	600	7.48	8/18/2010	20.7	6.38	209	7.6
Long Creek	570	7/22/2010	22.2	7.82	265		8/18/2010	21.2	7.77	265	7.53
Long Creek	752	7/19/2010	21.8	6.84	750	7.3	8/16/2010	19.3	6.99	370	7.5
Long Creek	415	7/12/2010	21.5	6.5	490		8/13/2010	19.5	6.7	576	6.88
Long Creek (Blanchette Brook)	409	7/19/2010	22.1	7.29	857	7.55	8/18/2010	19.7	7.28	963	7.41
Long Creek (North branch)	414	7/19/2010	21.9	7.91	1245	7.37	8/16/2010	19.4	6.86	725	7.49

* Temp = water temperature; DO = dissolved oxygen; SPC = specific conductance.

Table 3.1.2. 2010 SWAT Field Data (continued)

Waterbody	Station	Sampler Deployment					Sampler Retrieval				
		Date	Temp	DO	SPC	pH	Date	Temp	DO	SPC	pH
			Deg C	mg/L	uS/cm	STU		Deg C	mg/L	uS/cm	STU
Merriland River	436	7/28/2010	21.8	7.4	57	6.37	8/31/2010	20.9	8	57	5.81
Merriland River	437	7/28/2010	21.7	8.1	63	6.57	8/31/2010	20.9	8.2	64	6.07
Mill Brook	698	7/26/2010	22.6	8.5	36		8/25/2010	18	7.9	29	7.04
Mousam River	259	7/30/2010	25.5	8.7	92	6.82	8/23/2010	21.6	8.1	78	6.7
Mousam River	390	7/21/2010	26.3	8.4	98		8/23/2010	20.6	7.8	70	6.51
Mousam River	391	7/21/2010	25.8	7.6	133		8/23/2010	20.2	8.2	106	6.86
Presumpscot River	72	7/13/2010	26.8	8.2	68		8/16/2010	24.2	7.9	66	6.98
Red Brook	219	7/27/2010	18.5	8.3	137		8/30/2010	18.3	8.6	128	6.58
Red Brook	412	7/19/2010	21.1	7.73	501	7.16	8/16/2010	18.1	7.47	623	7.08
Red Brook	413	7/27/2010	18.8	8.2	243		8/30/2010	19.8	7.2	269	6.83
Salmon Falls River	52	7/14/2010	25.8	7.8	111		8/17/2010	25.7	7.9	134	7.08
Sheepscot River	74	7/7/2010	26.7	6.7	50		8/10/2010	23.8	6.8	67	6.78
South Branch Long Creek	753	7/12/2010	23.1	6.7	1082		8/13/2010	19.7	6.6	1172	7.4
Tannery Brook	474	7/27/2010	22.5	6.7	221		8/30/2010	18.6	6.1	186	6.73
Tannery Brook	562	7/27/2010	19.4	8.1	375		8/30/2010	17.5	7.4	344	7.42
Trout Brook	451	7/22/2010	22.2	7.8	197		8/24/2010	18.7	8.2	185	7.47
Trout Brook	675	7/12/2010	14.8	5.5	749		8/13/2010	14	5.2	975	6.37
West Branch Sheepscot River	268	7/7/2010	25.7	7.9	65		8/10/2010	22.1	7.9	78	7.19
West Brook	797	7/22/2010	25.1	7.1	148		8/24/2010	18	7	201	6.83

*

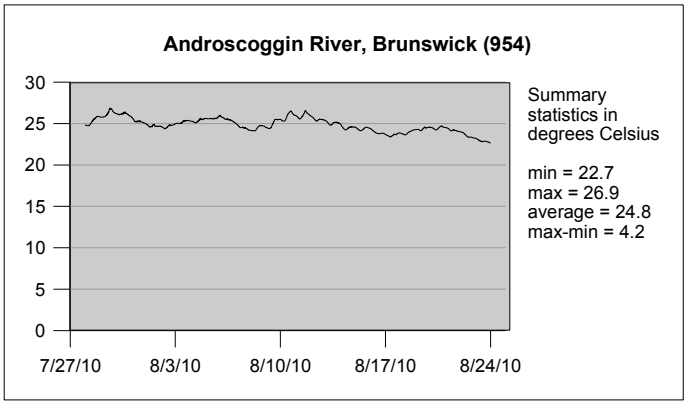
Table 3.1.3. 2010 SWAT Water Chemistry Data

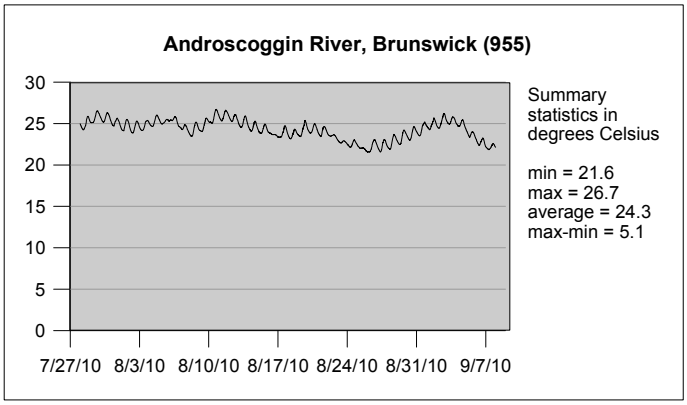
Samples were analyzed by the Health & Environmental Testing Laboratory, Augusta, ME. Highlighted values indicate high results.

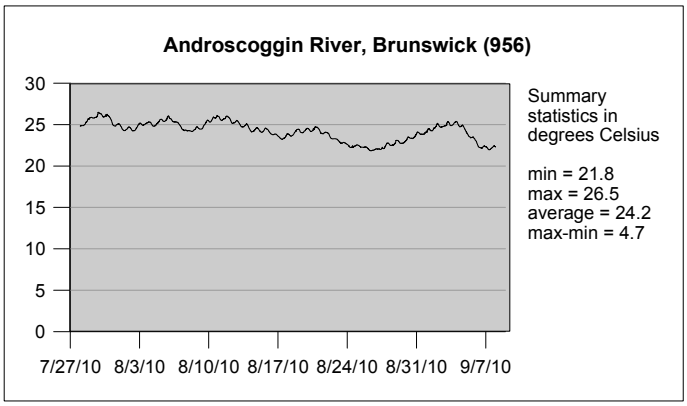
Waterbody	**Log**	**Sampling Date**	**DOC**	**NH_3-N**	**TKN**	**NO_2-NO_3-N**	**SRP**	**Total P**	**TSS**	**TDS**
			mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L
Back Brook	1961	8/25/2010	1.2	<0.01	0.14	0.140	3	0.017	9.6	45
Birch Stream	1923	8/12/2010	2.5	0.03	0.30	0.260		0.020	2.2	270
Branch Brook	1952	8/23/2010	1.2	<0.01	0.10	~0.164	1	0.005	<2	54
Frost Gulley Brook	1920	8/11/2010	2.2	<0.01	0.20	0.280		0.024	<2	180
Frost Gulley Brook	1921	8/11/2010	2.2	<0.01	0.20	0.280		0.027	<2	200
Goosefare Brook	1958	8/24/2010	1.6	0.02	0.24	0.250	3	0.013	<2	94
Goosefare Brook	1959	8/24/2010	2.2	0.07	0.30	0.200	2	0.015	<2	330
Great Works River	1934	8/17/2010	2.7	0.01	0.30	0.040	1	0.016	<2	83
Kennebunk River	1974	8/10/2010	5.8	0.01	~0.40	0.030	4	0.034	3.1	73
Little Ossippee River	1963	8/25/2010	2	<0.01	0.10	0.020	1	0.009	<2	42
Little Ossippee River	1964	8/25/2010	3.7	<0.01	0.30	<0.010	<1	0.013	<2	65
Little River	1936	8/17/2010	3.7	<0.01	0.30	0.100	1	0.015	<2	82
Merriland River	1975	8/31/2010	16	0.01	0.60	0.030	3	0.025	<2	75
Merriland River	1976	8/31/2010	15	0.01	0.70	0.030	2	0.030	<2	82
Mousam River	1951	8/23/2010	2.1	0.03	0.20	~0.030	<1	0.011	<2	55
Salmon Falls River	1935	8/17/2010	3	0.02	0.20	0.470	35	0.071	<2	110
Sheepscot River	1919	8/10/2010	3.8	<0.01	0.30	<0.010	<1	0.011	<2	41
Thacher Brook	1960	8/24/2010	1.8	<0.01	0.20	0.110	16	0.027	4.1	110
West Branch Sheepscot River	1918	8/10/2010	3.6	<0.01	0.30	0.050	<1	0.010	<2	53

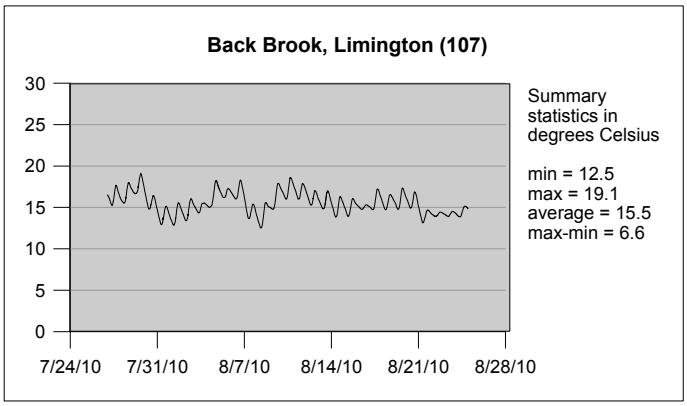
DOC = dissolved organic carbon, NH_3-N = ammonia-nitrogen, TKN = total Kjeldahl-nitrogen, NO_2-NO_3-N = nitrite-nitrate-nitrogen, SRP = soluble reactive phosphorus (ortho-phosphate), Total P = total phosphorus, TSS = total suspended solids, and TDS = total dissolved solids.

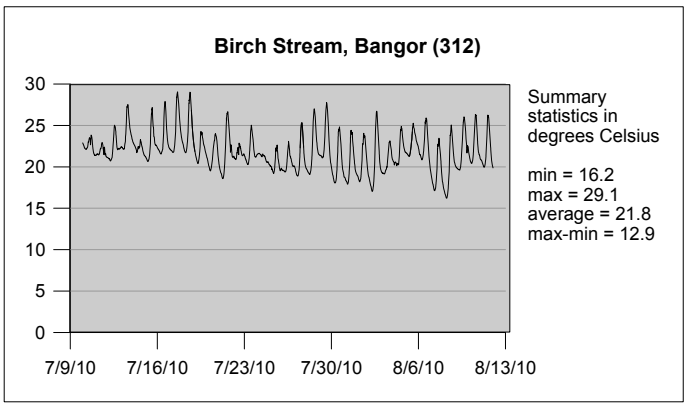
Figure 3.1.1. 2010 In-Stream Temperature Data
Please note: all data are in degrees Celsius

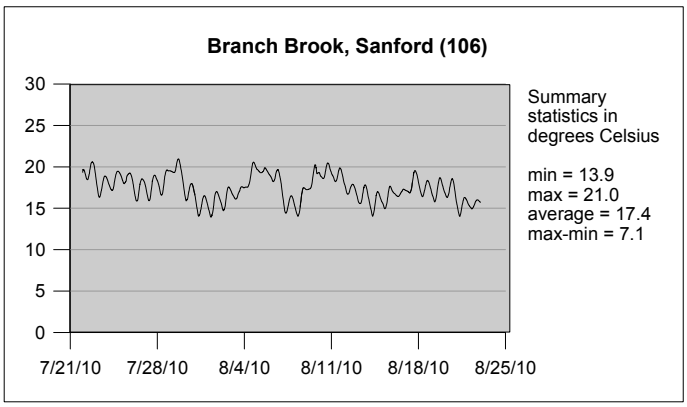


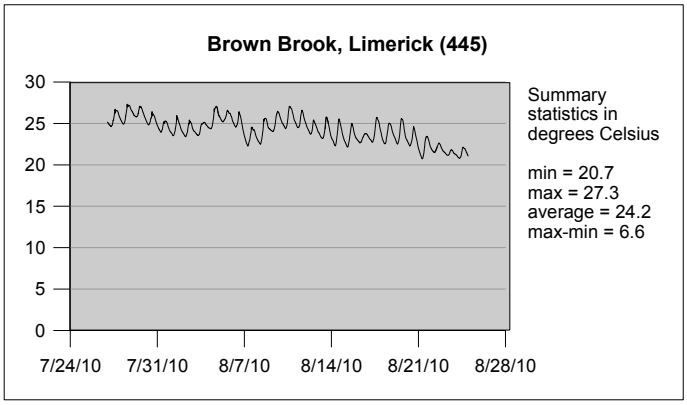












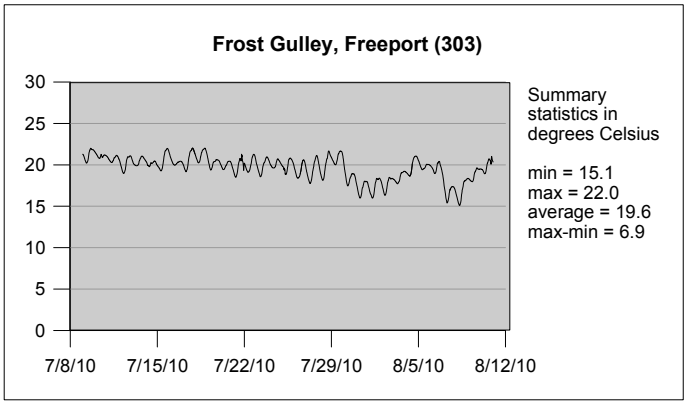
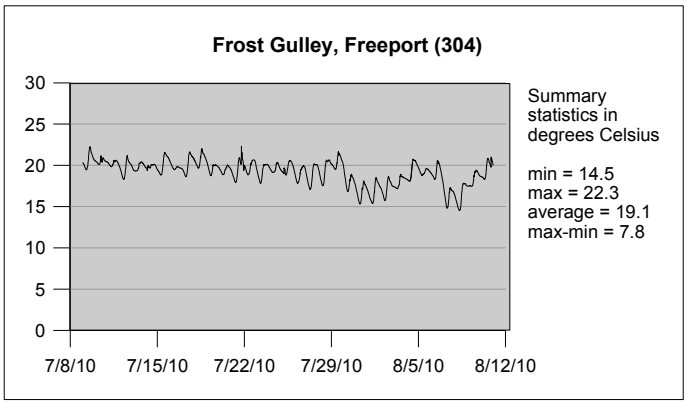
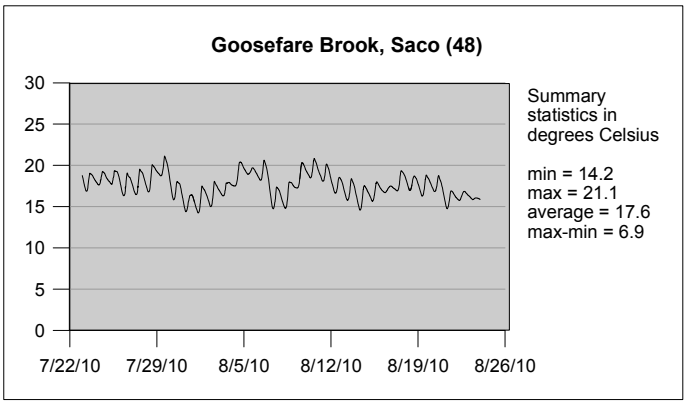
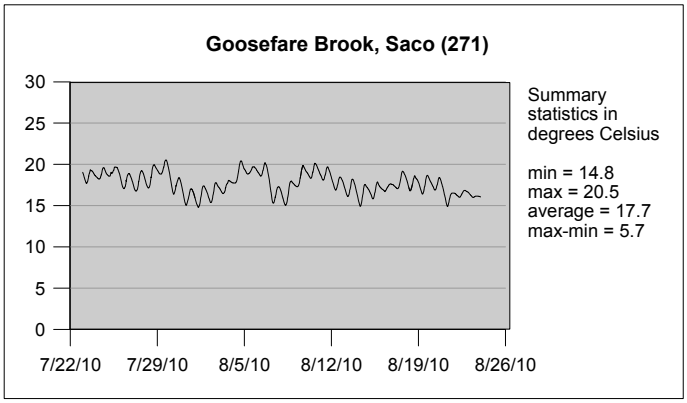
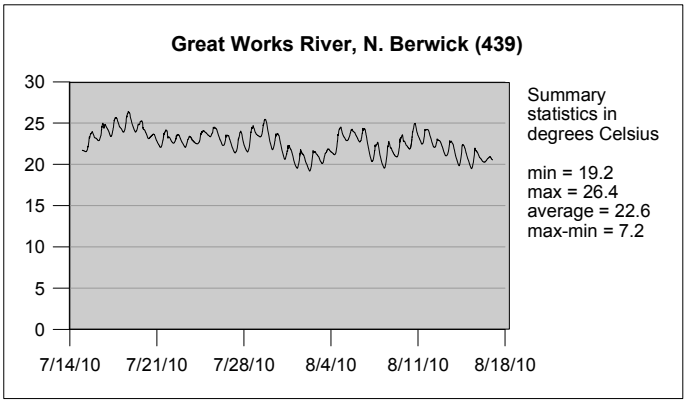


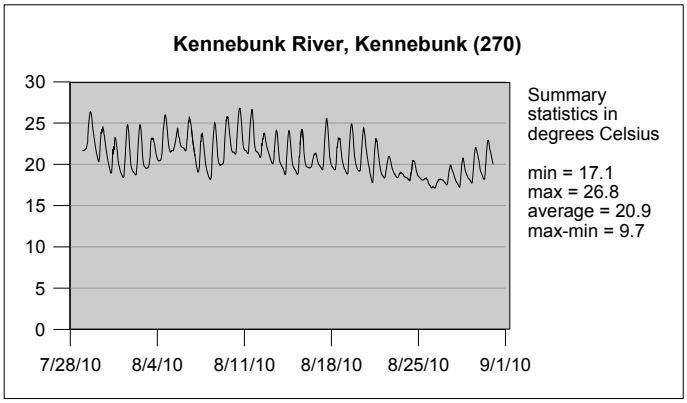
Figure 3.1.1. 2010 In-Stream Temperature Data (continued)
Please note: all data are in degrees Celsius

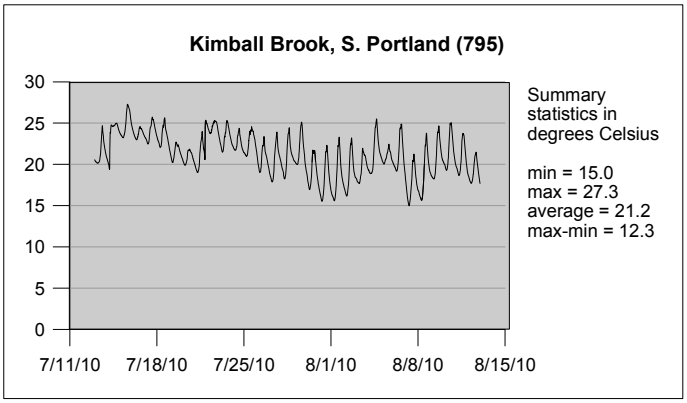


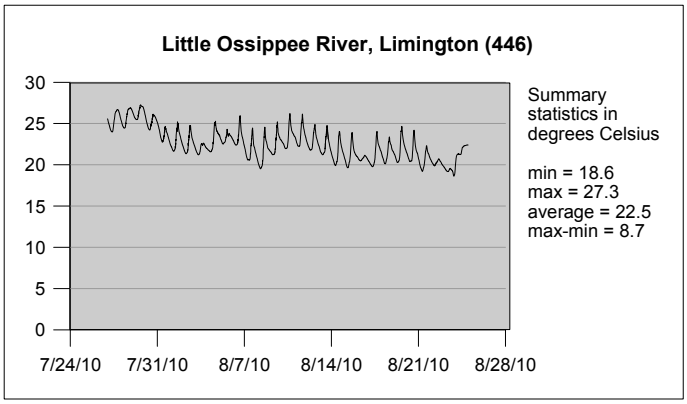












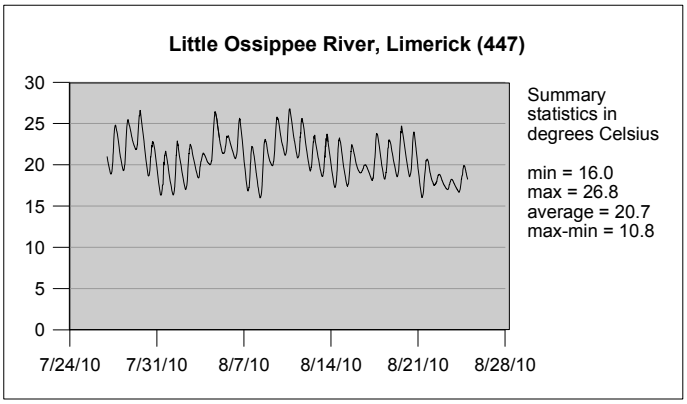
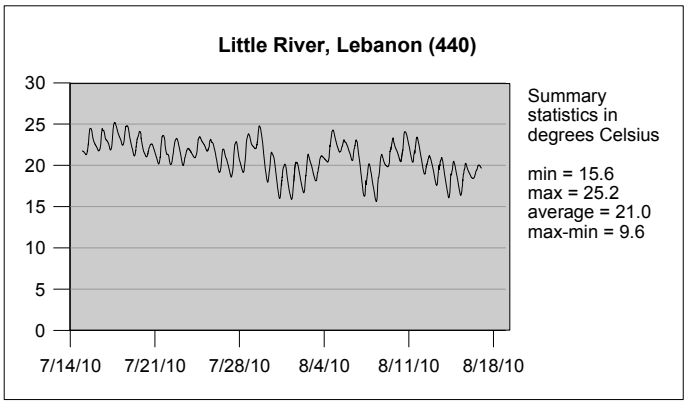
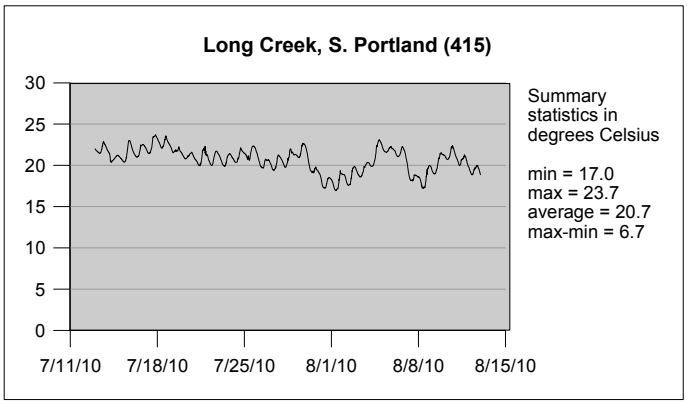
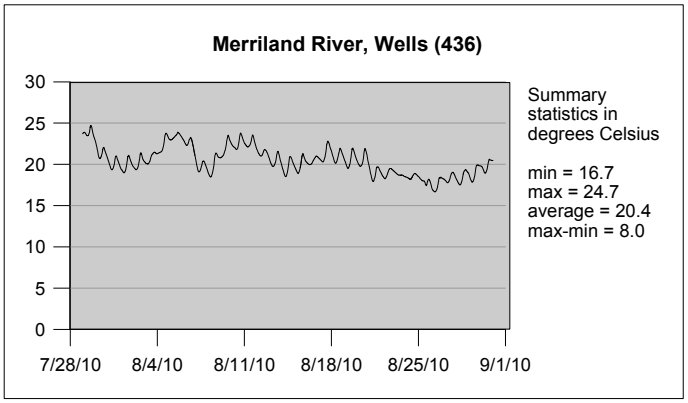
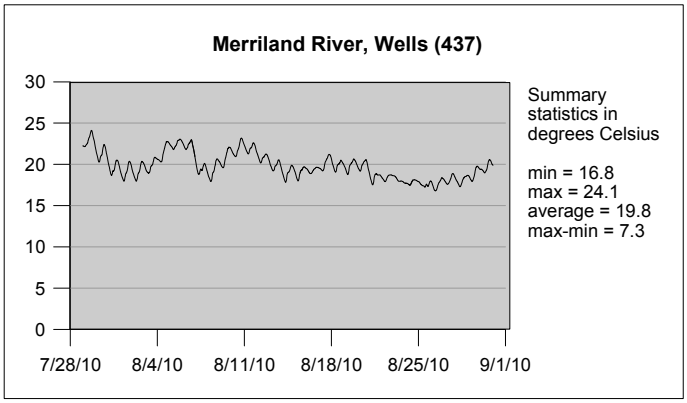


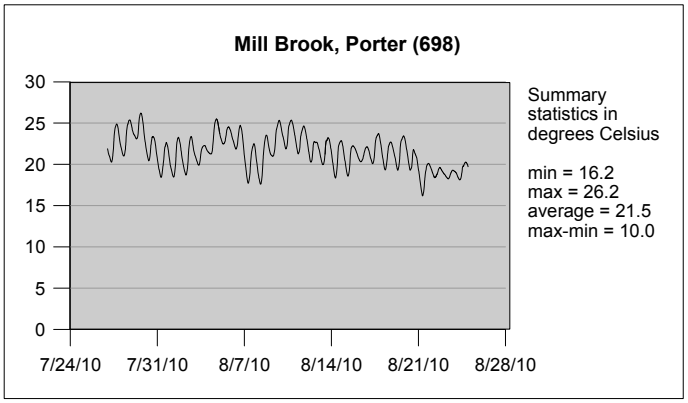
Figure 3.1.1. 2010 In-Stream Temperature Data (continued)
Please note: all data are in degrees Celsius

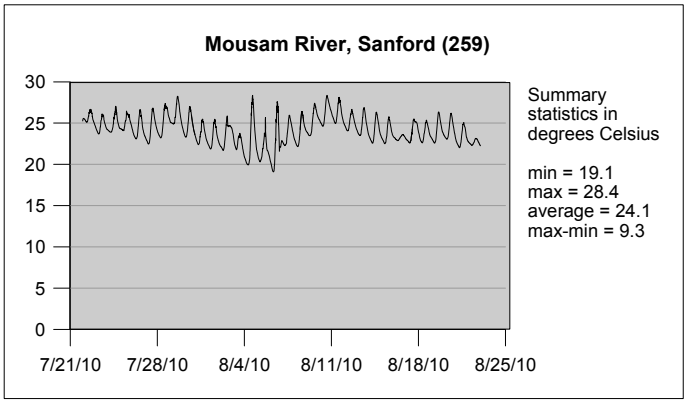


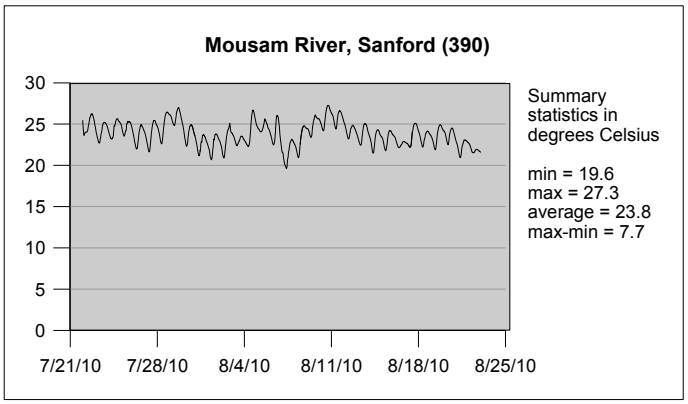












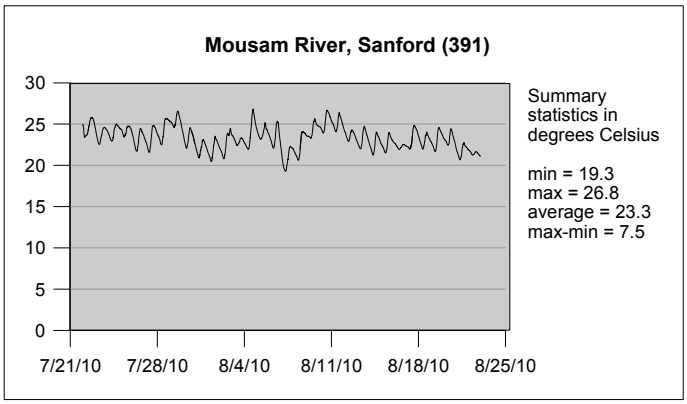
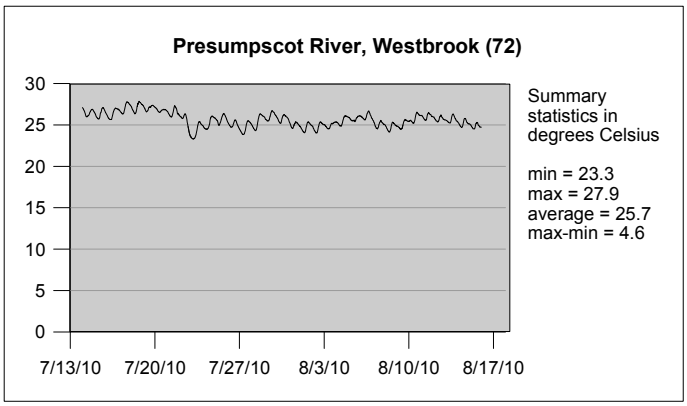
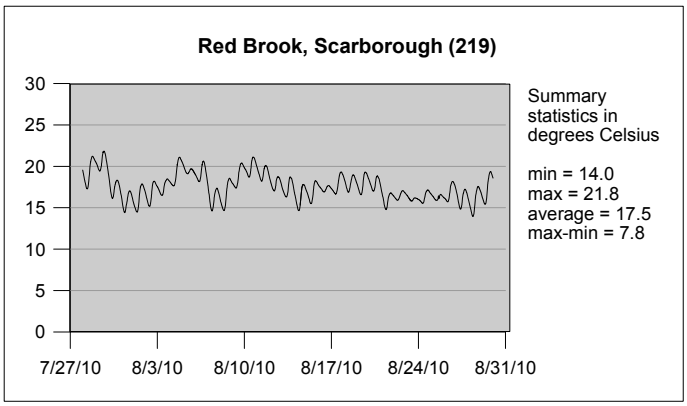
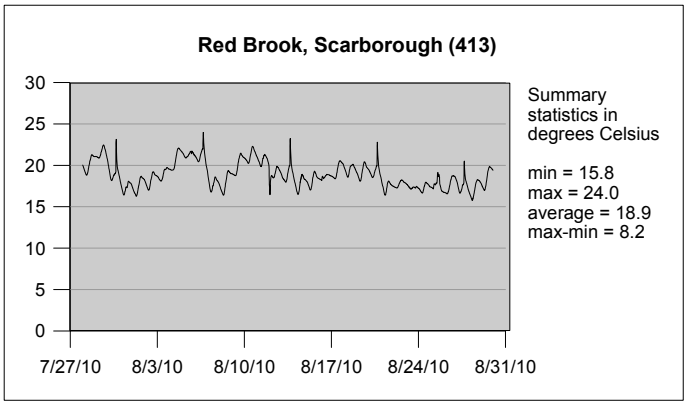
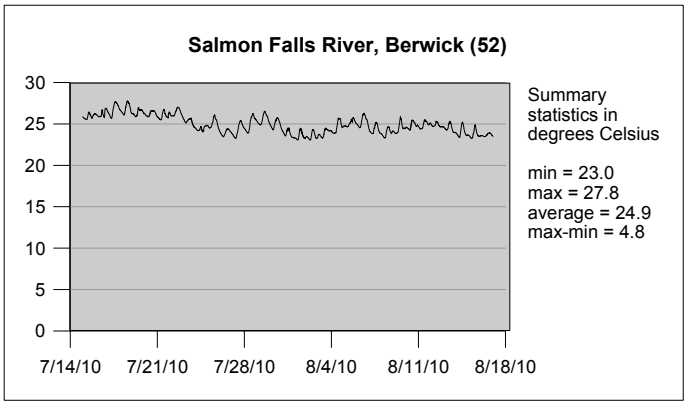


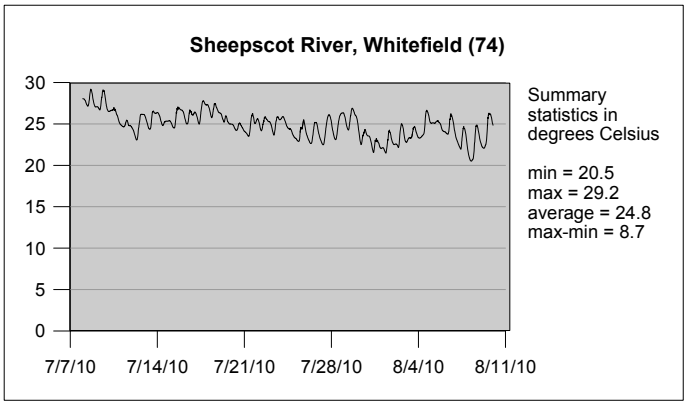
Figure 3.1.1. 2010 In-Stream Temperature Data (continued)
Please note: all data are in degrees Celsius

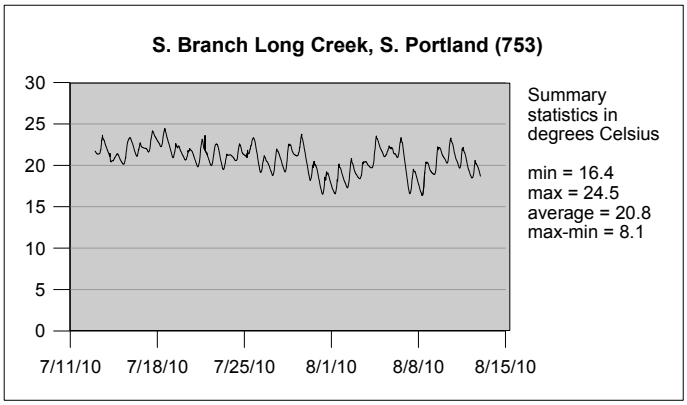


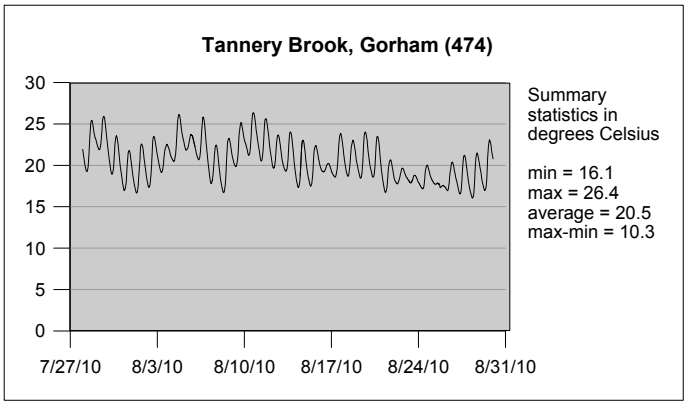












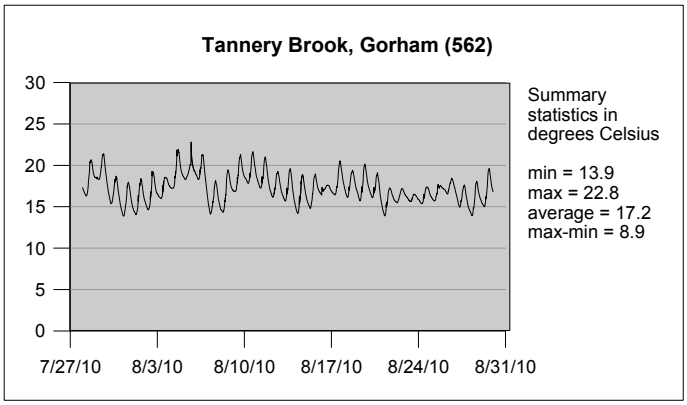
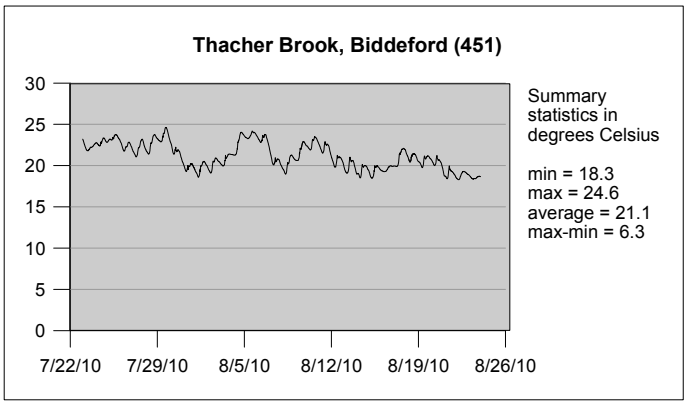
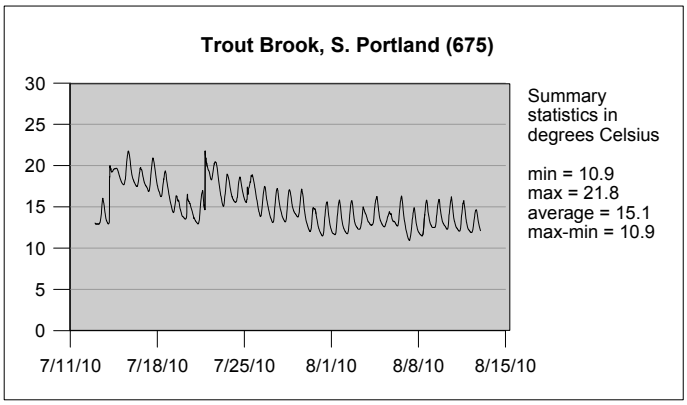
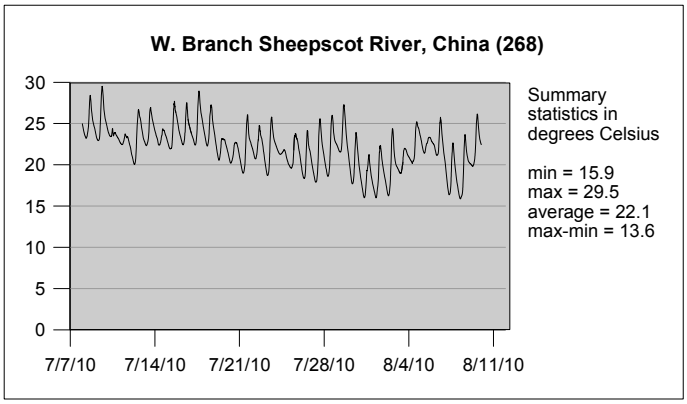
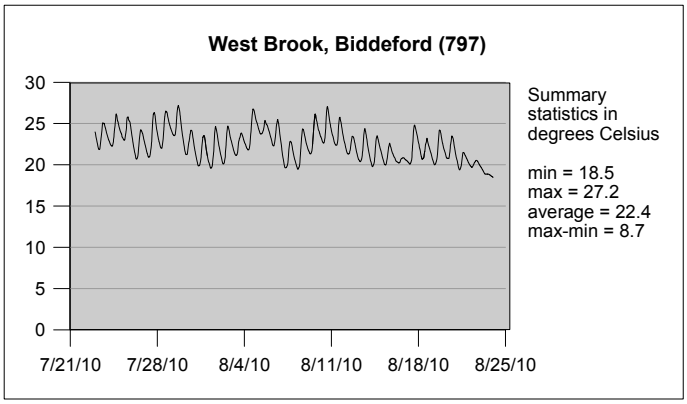


Figure 3.1.1. 2010 In-Stream Temperature Data (continued)
Please note: all data are in degrees Celsius









3.1.3 Attainment History of Sampling Stations Prior to 2010

The table below provides the attainment history for sampling stations that have been sampled in the past.

Table 3.1.4. Past Attainment History

Waterbody	Station	Attained Class	Did not Attain Class	Indeterminate Result
Back Brook	107	1987, 2005		
Birch Stream	312		1997,1999, 2001, 2003-2007	
Branch Brook	106	1987	2000, 2005	
Brown Brook	445		2005	2000 (low numbers)
Frost Gulley	303	1997, 2000, 2005	1998	
Frost Gulley	304	2000	1997, 1998, 2005	
Goosefare Brook	48	1984, 1986, 1994, 1998, 2000	1995, 2005	
Goosefare Brook	271	2005	1995, 1998, 2000	
Great Works River	439	2000, 2005		
Kennebunk River	270	1995, 2000	2005	
Kimball Brook	795		2005	
Little Ossippee River	446		2000, 2005	
Little Ossippee River	447	2000, 2005		
Little River	440	2000, 2005		
Long Creek	411		1999	
Long Creek	752		2004	
Long Creek	415	1999		
Long Creek (Blanchette Brook)	409		1999	
Long Creek (North branch)	414		1999	
Merriland River	436	2000, 2005		
Merriland River	437	2000, 2005		
Mill Brook	698	2003		
Mousam River	259	1995, 1999, 2005		
Mousam River	390	1999		
Mousam River	391	1999		
Presumpscot River	72	2005	1984, 1994-1996	
Red Brook	219	1994, 2005	1999	
Red Brook	412	1999		
Red Brook	413	2007		1999 (low numbers)
Salmon Falls River	52	2005	1984, 1991, 1992, 1995	
Sheepscot River	74	1985, 1987-1990, 1992, 1995, 1996, 1998-2009	1984, 1986, 1991, 1993, 1994, 1997	

Table 3.1.4 – Past Attainment History (continued)

Waterbody	**Station**	**Attained Class**	**Did not Attain Class**	**Indeterminate Result**
South Branch Long Creek	753		2004	
Tannery Brook	474	2000, 2005		
Tannery Brook	562	2000, 2005		
Thacher Brook	451	2000, 2005		
Trout Brook	675		2003-2005	
West Branch Sheepscot River	268	1996-1999, 2001, 2002, 2005, 2007, 2009	2000, 2003, 2004, 2006, 2008	1995 (low numbers)
West Brook	797		2005	

3.2 FISH CONSUMPTION ADVISORIES

Although there is a statewide Fish Consumption Advisory for all freshwaters based on mercury, there are more restrictive advisories for certain rivers and streams due to other contaminants. Based on a review of the fish sampling data by the Maine Center for Disease Control and Prevention (MCDC) conducted through 2009, dioxin, coplanar PCB and total dioxin toxic equivalents (TEQ) concentrations, which were responsible for many advisories on rivers and streams, had decreased significantly over the previous 10 to 15 years. The remaining contaminants of primary concern for continued fish consumption advice more restrictive than the mercury advice are DDT and total PCBs. As for DDT, the three new locations tested in 2009 along with the 2009 testing at seven previously sampled rivers and streams demonstrate concentrations above the FTAL of 64 ppb, indicating that DDT is affecting a number of rivers and streams in Aroostook County. Based on the data collected through 2010, sufficient data are now available to begin evaluation of revisions to the fish advisories for the next (2012) fishing season.

Available data, including those collected in 2009, indicated the continued presence of levels significantly above the PCB fish tissue action level (FTAL) of 11 ppb at some locations. Consequently, MCDC recommendations for sampling for 2010 were geared primarily toward filling data gaps identified in the sampling network for dioxins and/or total PCBs. *Though limited dioxin monitoring was requested in 2010 to fill identified data gaps, additional future sampling will be requested beginning in 2011 as part of a periodic monitoring program to confirm that total TEQ levels are either stable or continuing to trend downward.*

No analytical data for striped bass or bluefish were requested for 2010. Data for striped bass and bluefish will be requested in the future as part of a plan to periodically monitor contaminant levels over 3 to 5 year intervals to support the striped bass and bluefish consumption advisory that was revised in 2009.

In 2010 fish were collected by DEP by use of angling and gill nets. Chain of custody forms were used. Fish were immediately killed, weighed and measured, rinsed in river water, wrapped in aluminum foil with the shiny side out, labeled, and placed in a cooler on ice for transport to DEP for secure storage in the freezer. All samples from other agencies were transferred to DEP and fully documented with chain of custody forms. Samples were transferred from DEP to the analytical laboratory for analysis using EPA method 1613b. All other procedures generally followed EPA's Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume I Fish Sampling and Analysis, 1993. Completed chain-of-custody field forms were kept in the freezer storage area for an inventory of samples at any time and an Excel spreadsheet documented final disposition of samples.

3.2.1 Dioxin in Fish Tissue

3.2.1.1 Introduction

Maine's Dioxin Monitoring Program (DMP), established in 1988, was merged with the Surface Water Ambient Toxics (SWAT) monitoring program in 2007 as 38 MRSA 420-B sub-§1-A for Dioxin monitoring. The goal of the monitoring is "to determine the nature of dioxin contamination in the waters and fisheries of the State" and to "determine the need for fish consumption advisories on affected waters". Charged with administration of the program, the Commissioner of the Department of Environmental Protection (DEP) is required to

1) Select a representative sample of wastewater treatment plant sludges from municipal wastewater treatment plants, bleached pulp mills or other sources. These facilities must be selected on the basis of known or likely dioxin contamination of their discharged effluent:
2) Sample and test the sludge of selected facilities of dioxin contamination at least once during each season of the year. The commissioner shall specify which congeners of dioxin will be analyzed;
3) At appropriate intervals, sample and test for dioxin contamination in selection of fish representative of those species present in the receiving waters of where there are consumption advisories for dioxin; Sufficient numbers of fish must be analyzed to provide a reasonable estimate of the level of contamination in the population of each waterbody affected; and
4) Assess the selected facilities of the costs of sample collection and analysis except that, if the selected facility is a publicly owned treatment works, the Commissioner may assess the primary industrial generator discharging effluent into the treatment facility if the generator is known or likely to be discharging dioxin into the treatment facility. Fees received under this subparagraph must be credited to the Maine Environmental Protection Fund. Payment of these fees is a condition of the discharge license issued pursuant to section 413 for continued operation of the selected facilities, except that if the selected facility is a publicly owned treatment works and the Commissioner assesses the fee on an industrial generator, payment of the fee is not a condition of the discharge license of the selected facility. The fees assessed under this subparagraph may not exceed a total of $250,0000 in any fiscal year. The fees assessed under this subparagraph to facilities subject to section 420, subsection 2, paragraph I may not exceed a total of $10,000 in any fiscal year.

The monitoring program is to be coordinated with other ongoing programs conducted by the Department, the Maine Center for Disease Control and Prevention, US Environmental Protection Agency (EPA) and other federal agencies, or dischargers of wastewater. The proposed annual monitoring plan must be submitted to the Surface Water Ambient Toxics (SWAT) Technical Advisory Group (TAG), created under 38 MRSA section 420-B, for review and advice. The selected facilities must be notified of their inclusion in the proposed program at least 30 days prior to submittal to the TAG.

3.2.1.2 Program Design

Following attainment of the provisions of the 1997 Dioxin Law and elimination of the measurable discharge of dioxins (includes closely related furans) from the bleached kraft pulp and paper mills in 2003-2005, the Dioxin Monitoring Program is now focused on residual levels of dioxins from historic discharges and how they affect Maine's fish consumption advisories. This report contains the findings from the 2010 Dioxin Monitoring Program with respect to three objectives:

1. Human health assessment, Fish Consumption Advisories
2. Trend evaluation
3. 1997 Dioxin Law, Continued Compliance

This report also contains the (dioxin-like) coplanar polychlorinated biphenyl (PCB) data. Coplanar PCB data are included to show the total exposure to dioxin-like compounds from consumption of certain fish from several Maine rivers. The Maine Center for Disease Control (MCDC) uses both dioxins and coplanar PCB data, which are have similar toxicity characteristics to dioxins, in order to make a complete assessment of the fish consumption advisories. Sources of the coplanar PCBs are not known, but likely include historic use and discharge in Maine, and long range transport and atmospheric deposition.

In January 2008, the Maine Center for Disease Control and Prevention (MCDC) issued the latest report titled, 'Evaluation of the Health Implications of Levels of Polychlorinated Dibenzo-p-Dioxins (dioxins) and Polychlorinated Dibenzofurans (furans) in Fish from Maine Rivers -- 2008 Update', which can be seen at http://www.maine.gov/dep/blwq/docmonitoring/dioxin/index.htm . In the report, MCDC adopted a new Fish Tissue Action Level (FTAL) of 0.4 pptr, based on the same toxicity data for non-cancer effects used since 1990, but adjusted downward to account for substantial background exposure from other dietary foods. MCDC reviewed the data collected since their last review in 2003, i.e. 2004-2007 with respect to the new FTAL.

For 2009, MCDC did not request any monitoring, but made the following statement:

Dioxin monitoring, though not requested this year for the major rivers, will be requested in future years as part of a periodic monitoring program to confirm that total TEQ levels are either stable or continuing to trend downward

For 2010, MCDC made the following request to gather data to allow a review of the fish consumption advisories by the 2011 open water fishing season:

Though limited dioxin monitoring is requested this year to fill identified data gaps, future sampling will be requested beginning next year as part of a periodic monitoring program to confirm that total TEQ levels are either stable or continuing to trend downward.

Dioxin Data for the Major Rivers

As stated previously, requested dioxin sampling is based on identified data gaps. Because dioxins, in general, are higher in white sucker than game fish but game fish have been the focus of previous

sampling, white sucker data are requested to determine whether separate advice for white sucker, more restrictive than for other game fish, is required. Recommendations for further sampling for dioxins are provided below, by river.

Kennebec River: *White suckers have not been sampled for dioxins at Augusta or Sidney since 1995. Total TEQ concentrations were approximately 5 parts per trillion (ppt) at that time with the dioxin TEQ approaching 3 ppt. Sampling conducted in 2009 for coplanar PCBs indicates that the PCB TEQ in white sucker in the Augusta/Sidney reach of the river has decreased significantly and now is on the order of 0.5-0.6 ppt. Lacking companion dioxin data precludes a conclusion that total TEQ concentrations have now fallen below 3 ppt. The lack of recent dioxin TEQ data for white sucker is identified as a data gap and analysis for dioxins is requested for white sucker at either Augusta or Sidney to fill this data gap.*

Sebasticook River: *Total TEQ data are available for white sucker only at one location (Burnham; total TEQ ~0.8 ppt in 2008) within the last 10 years. Total TEQ data for the west branch of the river (Palmyra) indicate levels greater than 4 ppt in 1996. No dioxin data for white sucker are available from the east branch of the river. Therefore, dioxin data for white sucker are requested from Palmyra and Newport (if possible) to fill these data gap.*

St. Croix River: *The most recent total TEQ data available for white sucker were collected in 1999. Total PCB data collected for white sucker at Baring indicate that more conservative advice than the mercury advice is necessary downstream of this sampling location, while data at Woodland indicate that the mercury advice is sufficiently protective. Therefore, to confirm that the mercury advice is sufficiently protective at Woodland, upstream of Baring, dioxin data for white sucker are requested from Woodland to fill this data gap.*

3.2.1.3 Sampling Plan

In 2010, a total of 10 white suckers were targeted for collection and analysis at selected stations (Table 3.2.1). Skinless filets from alll fish were analyzed for all 2378 substituted dioxins and furans. Sample costs were reduced from that of previous years by analysis of two composites of five fish for each station. Facilities with known or likely dioxin contamination of their discharged effluent, identified as a DMP facility, were assessed fees for the cost of chemical analysis of samples below their discharge. Analysis of other samples, identified as SWAT samples, was funded by DEP.

An analytical issue is that of estimated maximum possible concentrations (EMPC). Some compounds, particularly hydroxydiphenyl ethers (DPEs), are coextracted with furans. Laboratory analysis has been modified to minimize these interferences, but some DPEs may remain. In the 2007 Dioxin Monitoring Program report, the Maine Center for Disease Control and Prevention calculated EMPCs as a detected value according to their policy for setting the fish consumption advisories. To be consistent for comparison with MCDC's FTAL, EMPCs were treated the same way in this report.

Table 3.2.1. 2010 DMP/SWAT dioxin and coplanar PCB samples.

RIVER	STATION	DMP PCDD/F samples	DMP facility	SWAT PCDD/F samples	SWAT CPCB samples
KENNEBEC R	SIDNEY	2C5 WHS	SAPPI SOMERSET		2C5 WHS
ST CROIX R	WOODLAND			2C5 WHS	2C5 WHS
SEBASTICOOK R					
EAST BRANCH	NEWPORT			2C5 WHS	2C5 WHS
WEST BRANCH	PALMYRA	2C5 WHS	HARTLAND		2C5 WHS
TOTAL		**4**		**4**	**8**

2C5 WHS = 2 composites of 5 white sucker each
DMP = Dioxin Monitoring Program; SWAT = Surface Water Ambient Toxics monitoring program
PCDD/F=dioxins and furans; CPCB = coplanar PCBs

3.2.1.4 Results and Discussion

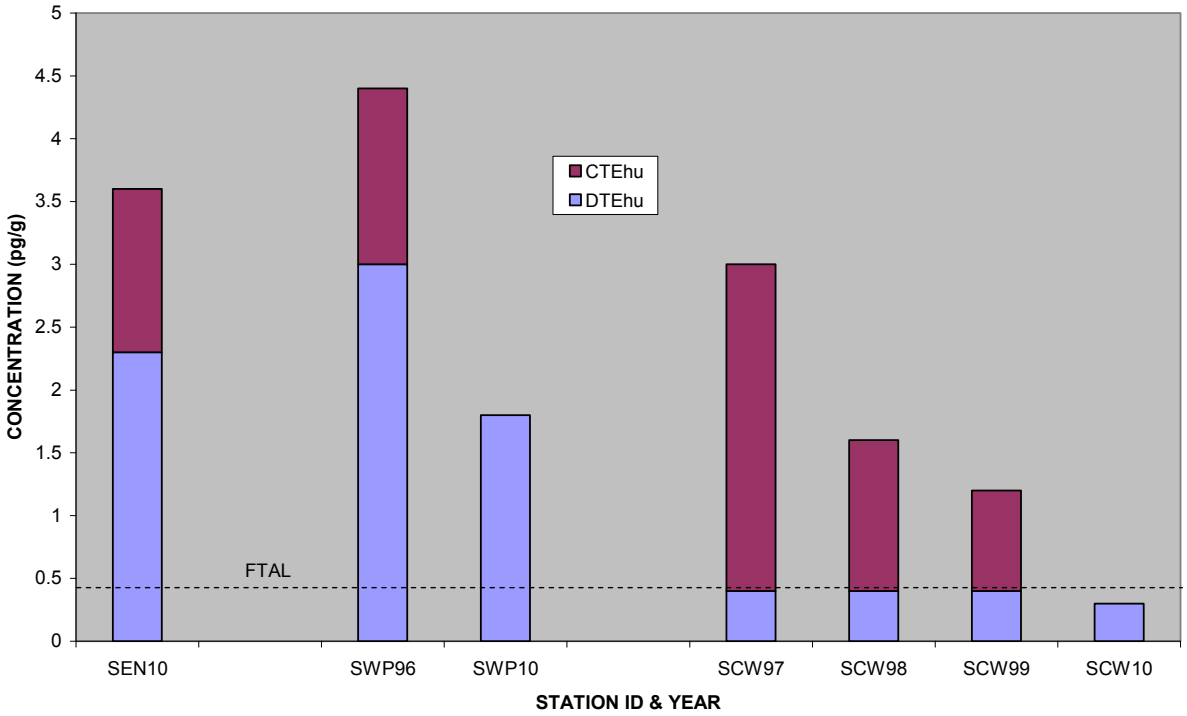
White sucker were not successfully collected from the Kennebec River at Sidney. White sucker were collected from the East Branch of the Sebasticook River above the County Road Bridge below Corinna in Newport (SEN), from the West Branch of the Sebasticook River below Hartland at Palmyra (SWP), and from the St. Croix River above the mill in Woodland.

At SEN in 2010, concentrations of dioxin toxic equivalents (DTEhu, calculated at the 95th upper confidence level with non-detects at ½ of the detection limit) exceeded the MCDC FTAL for dioxin like compounds by a large amount (Figure 3.2.1). Similarly concentrations of coplanar PCB toxic equivalents (CTEhu, calculated at the 95th upper confidence level with non-detects at ½ of the detection limit) also exceeded the FTAL alone and increased the exceedance for the combination of the two groups of contaminants. There are no historical data for white sucker at this location, which is below a Superfund site at a former textile mill that has been extensively remediated for other compounds that may have been precursors for dioxin. There is an extensive wetland with much deposition of fine grained organic sediments at this sample site.

At SWP in 2010 concentrations of DTEhu also exceeded the MCDC FTAL for dioxin like compounds by a large amount (Figure 3.2.1). Concentrations were somewhat lower than in the only previous sample in 1996. CTEhu also exceeded the FTAL in 1996 but were not sampled in 2010.

At SCW in 2010, concentrations of DTEhu were slightly below the FTAL and previous levels from 1997-1999 (Figure 3.2.1). CTEhu were not measured in 2010, but exceeded the FTAL, although were declining, in previous years.

Figure 3.2.1 Dioxin (DTEhu) and coplanar PCB (CTEhu) toxic equivalents(upper 95th CL) in white sucker from the Sebasticook River East Br at Newport (SEN) & West Br at Palmyra (SWP), & St Croix River at Woodland (SCW) in 2010 compared to historical data



3.2.2 PCBs in Fish Tissue

3.2.2.1 Introduction

Total PCB Data for the Major Rivers

As stated previously, total PCBs are a limiting factor for revision of the fish consumption advice for the major rivers to advice consistent with that based on state-wide mercury concentrations in fish. In 2010, MCDC requested PCB sampling primarily based on identified data gaps. Recommendations for further sampling for total PCBs are provided below, by river. Two composite samples were recommended for each sampling location - fish species combination. Analysis for total PCBs by the congener method was requested.

Androscoggin River: Monitoring data for total PCBs indicates that more protective advice is needed upstream of Rumford with less restrictive advice indicated downstream of Jay. The Riley sampling station, located between Jay and Rumford, has not been sampled for total PCBs since 2002. Sampling data was requested at this station to determine whether this reach of the river should be included within the area subject to the more restrictive or less restrictive advice. Therefore, bass and white sucker data at Riley for total PCBs by the congener method was requested.

Penobscot River: No total PCB data are available for bass or white sucker upstream of Woodville. It is possible that less restrictive advice could be recommended upstream of Woodville. Therefore, total PCBs in both bass and white sucker were recommended at Medway on the West Branch and Grindstone on the East Branch.

Sebasticook River: Total PCB data were collected in bass and white sucker in 2008. These data indicate that more restrictive advice is necessary for the main stem and East Branch of the river. Therefore, a second year of sampling was requested for bass and white sucker at Burnham and Newport. These data were recommended for collection prior to changing the fish consumption advice for this river.

Presumpscot River: Data collected for total PCBs in 2009 indicate levels exceeding the total PCB FTAL. The mercury advice is not protective given the levels of total PCBs detected in this single round of sampling. Therefore, a second year of sampling was requested for bass and white sucker at Westbrook and Windham prior to changing the fish consumption advice for this river. Since a new station at Gorham, sampled for other metrics in 2008 and 2009, showed some level of impact, this station was also included for sampling in 2010.

3.2.2.2 Results and Discussion

A total of 10 fish were captured at each station and analyzed as two composites of skinless filets from each of five fish for all 209 or coeluting PCB congeners via EPA method 1668. Total PCBs were then calculated as the sum of congeners and coeluting groups. From these data, coplanar PCBs were also calculated but, as there were no accompanying dioxin and furan data, total dioxin toxic equivalents are not available and the coplanar data are, therefore, not shown.

Androscoggin River

Mean total PCB (TPCB) concentration in smallmouth bass at Riley exceeded MCDC's FTAL of 11 ng/g in 2010 (Table 3.2.2.1). Both mean and maximum concentrations in 2010 were much higher than in three previous years. Mean and maximum concentrations in white sucker were even higher than in bass and greatly exceed the FTAL also. Concentrations in white sucker were higher than in the only previous year with data. Concentrations in both species were among the highest for all stations on the river. The variation in concentrations within species among all years may reflect differences among the four different labs that were used, although all data meet quality assurance and control objectives, or simply the natural variation in individuals and condition among years.

Table 3.2.2.1. Total PCBs in fish from the Androscoggin River, ng/g. mean and (max value where n=2 or 95th upper confidence level where n>2)

Year	Species	Gilead AGL	Rumford Pt ARP	Rumford ARF	Riley ARY	Jay ARJ	Livermore/Jay ALV	Livermore Fls ALF	AUBURN GIP AGI	Lisbon ALS
2000	BNT	85								
1998	RBT	11								
2000	RBT	28								
2008	RBT	75 (86)								
2009	RBT	63 (73)								
1994	SMB			97		42	49		114	98
1998	SMB		4 (4)	9 (12)	7 (8)		15 (19)		20 (26)	27 (30)
2000	SMB		10 (11)	21 (27)	15 (17)		38 (42)	27 (32)	29 (36)	52 (60)
2001	SMB									
2002	SMB		101	22	18		18		22	17
2003	SMB						22	19		
2008	SMB								30 (35)	
2009	SMB		51 (65)						21 (24)	
2010	SMB				47 (58)					
1994	WHS			80		129	39		114	145
1996	WHS						31	58		
1998	WHS		17	21	24		33			
2000	WHS						48	42		
2001	WHS									
2008	WHS								80 (85)	
2009	WHS	61(65)	36(46)				71 (91)	40 (45)	31 (38)	
2010	WHS				86 (110)					

Penobscot River

Mean total PCB (TPCB) concentration in both smallmouth bass and white sucker from Grindstone on the East Branch of the Penobscot River were well below MCDC's FTAL of 11 ng/g in 2010 (Table 3.2.2.2). Both mean and maximum concentrations in 2010 were slightly lower than in 1996, the only previous year with data. Mean and maximum concentrations in bass from Medway on the West Branch of the river were much higher and exceeded the FTAL. Concentrations in white sucker were higher than in bass and also exceeded the FTAL. Medway is below the towns of Millinocket and East Millinocket where there are discharges from municipal sewage treatment plants and pulp and paper mills and urban runoff.

Table 3.2.2.2. Total PCBs in fish from the Penobscot River, ng/g. mean and (max value where n=2 or 95th upper confidence level where n>2)

Year		Grindstone PBG	Medway PMD	Woodville PBW	Mattawamkeag PBM	S Lincoln PBL	Costigan PBC	Veazie PBV	Bangor PBO	Bucksport PBB
2000	ATS							19		
1996	EEL								37	
2000	EEL								253	
2002	EEL								98	
2007	SLT									27 (27)
1994	SMB					9		10		
1996	SMB	5		6						
2008	SMB			9		7 (8)				
2009	SMB			7 (10)		6 (9)		8 (12)		
2010	SMB	2 (2)	19 (22)							
1994	WHS					95		65		
1996	WHS	7		18						
2008	WHS			29 (30)		29 (49)				
2009	WHS			33 (35)		22 (26)		31 (32)		
2010	WHS	3 (5)	35 (44)							

Presumpscot River

Mean and maximimun total PCB (TPCB) concentrations in smallmouth bass at Windham in 2010 were well below MCDC's FTAL of 11 ng/g and similar to that of 1994, the only other year with data (Table 3.2.2.3). The mean and maximum concentrations in white sucker in 2010 were higher than in bass and near the FTAL but lower than in 1994. Concentrations in both smallmouth bass and white sucker at Gorham greatly exceeded the FTAL and concentrations from 2009. Concentrations in smallmouth bass and white sucker at Westbrook exceeded the FTAL and those from 2009, although concentrations in white sucker were lower than those in 1994. Concentrations were lowest at Windham, where there are no point source discharges or significant urban runoff. Concentrations were highest at Gorham, where there is urban runoff. Although there is no known current point source discharge, the sample station is an impoundment adjacent to an old industrial mill complex, which may have left a legacy of PCB contamination in the river. Interestingly, concentrations were somewhat lower at Westbrook, where there are current sewage treatment plant and paper mill discharges as well as urban runoff.

Figure 3.2.2.3. Total PCBs in fish from the Presumpscot River, ng/g.
mean and (max value where n=2 or 95th upper confidence level where n>2)

Year	Species	Windham PWD	Gorham PGO	Westbrook PWB
1994	SMB	8		8
2009	SMB		41 (48)	26 (27)
2010	SMB	6 (7)	109 (131)	51 (51)
1994	WHS	25		128
2009	WHS		40 (44)	41 (42)
2010	WHS	12 (13)	216 (257)	103 (109)

Sebasticook River

Mean and maximum total PCB (TPCB) concentrations in largemouth bass from the East Branch of the Sebasticook River at Newport exceeded MCDC's FTAL of 11 ng/g in 2010 (Table 3.2.2.1). Both mean and maximum concentrations in 2010 were similar to that of 2009 but higher than in 1997. Mean and maximum concentrations in white sucker were even higher than in bass and greatly exceed the FTAL also. This station is below a former textile mill that became a Superfund site that has been remediated for other contaminants. These concentrations are no higher than at many other stations in Maine with no history of industrial point sources of contaminants. Concentrations in both smallmouth bass and white sucker at Burnham on the main stem of the river exceeded the FTAL and those of previous years. They were also higher than those from the East Branch at Newport. This station is below the confluence of the East with the West Branch, where there is a tannery in Hartland, and also below the towns of Newport and Pittsfield with their sewage treatment plant discharges and urban runoff.

Figure 3.2.2.4. Total PCBs in fish from the Sebasticook River, ng/g
mean and (max value where n=2 or 95th upper confidence level where n>2)

Year	Species	E Br Newport SEN	W Br Palmyra SWP	Burnham SBN	Winslow
1994	SMB		9		
1997	LMB	3	4	3	6
2009	LMB	31 (36)	4 (5)	39 (41) SMB	
2010	LMB	38 (40)		54 (63) SMB	
1997	WHP	4			
1997	WHS		6	7	14
2009	WHS		7 (8)	70 (77)	
2010	WHS	60 (67)		113 (133)	

3.3. LITTLE ANDROSCOGGIN RIVER

3.3.1. Sediments

As required by EPA, Maine has adopted ambient water quality criteria (AWQC) for toxic pollutants, by rule at CMA 06-096 Chapter 584 (http://www.maine.gov/sos/cec/rules/06/chaps06.htm), to be used in calculation of effluent limits for dischargers. AWQC for heavy metals are expressed as total metal, even though the most bioavailable and toxic species are ionic forms. Use of total metal provides some margin of safety for various uncertainty factors. The AWQC are developed according to EPA guidelines to include toxicity data, usually from laboratory studies, from 8 families of aquatic organisms. Chapter 584 also allows development of site specific criteria (SSC) generally following EPA guidance with additional requirements specified in the rule. The development of SSC is usually initiated by a discharger with the recognition that for heavy metals, some is bound to particles and therefore not bioavailable or toxic. One concern is that an increase in total metal discharged to a waterbody may have negative effects on aquatic organisms in the sediment that is not evaluated by AWQC, which addresses only water-column toxicity.

DEP received a request from Paris Utilities District (PUD), which discharges treated domestic wastewater from its facility in South Paris, to develop a SSC for copper. PUD has not been able to meet its Maine Pollution Discharge Elimination System (MPDES) permit limit for copper, which is based on AWQC. PUD requested to use EPA's BLM (Biotic Ligand Model) for development of the SSC. The BLM uses measurements of 10 water quality variables (temperature, alkalinity, calcium, magnesium, sodium, sulfate, potassium, chloride, dissolved organic carbon, and pH) to calculate the bioavailable fraction of heavy metal to be used as the basis for a SSC. Out of concern for the potential effects of increased loading of total copper to the sediments, DEP proposed to conduct a study of the effects of current discharge on sediment biota.

There are several methods that have been used to address effects of sediment on aquatic biota. Sediments may be analyzed for total metal and results compared to sediment quality criteria (SQC) or guidelines (MacDonald et al. 2000). EPA has no specific SQC for copper and in the absence suggests use of the Equilibrium Partitioning approach, where concentrations are measured in sediment pore water and compared to AWQC (EPA, 2002). DEP was to collect sediments and pore water above and below the PUD discharge to address the issue for the SSC being developed in 2010. In researching methods for collection of pore water, it became apparent that it would not be easy to avoid aeration of the sample and potentially change the chemistry of the pore water. Another approach biomonitoring of the benthic organisms by conducting surveys of biological communities or sediment toxicity tests with aquatic organisms such as the amphipod *Hyalella azteca* or *Chironomus tentans* for freshwater. An alternate method suggested by EPA is use of AVS/SEM.

Acid volatile sulfide (AVS) has been used to predict the sediment toxicity of copper (Cu), cadmium (Cd), nickel (Ni), lead (Pb) and zinc (Zn) (Ankley et al. 1996; Berry et al. 1996). This relationship results from the volatilization of AVS present in sediment and simultaneous release of previously sulfide bound metals (SEM). As a metal sulfide complex, research indicates that metals are not available for uptake by benthic organisms. Under this assumption, the amount of AVS present in sediment limits the metal bioavailability and subsequent toxicity in sediments. Sulfide is an important binding component in modeling metal sorption in sediments (Morse et al. 1987). In the

presence of excess sulfide, most of the reactive metal will form insoluble metal sulfides. The AVS/SEM becomes an indicator of the ratio of available sulfide to the SEM metals and allows the partitioning of free aqueous phase metal and solid phase metal in sediments. The five divalent metals (Cd, Ni, Cu, Pb and Zn) form metal sulfide complexes. If the molar ratios of the SEMs are greater than that of the AVS, the excess fraction of the metals may be considered to have a high potential for bioavailability. For divalent metals, one mole of SEM will react with one mole of AVS.

Sediment samples were collected from the Little Androscoggin in August at two locations, above the dam at Rt 117 approximately 1 mile upstream of the PUD discharge and at Rt 26 approximately 3 miles below the PUD discharge and 2.5 miles below the Norway STP discharge. Due to questionable holding times, samples were collected again in October. Samples were collected at Route 117 from a shallow (~ 2 m) impoundment. Most of the substrate of the river in this reach is sand and there were few depositional areas; consequently the Rt26 sample station was in a side eddy in a shallow (0.2 m) run. Samples were collected by use of a clean Ekman Dredge and plastic spoon by carefully sampling sediment that was not in contact with the dredge from the top ~2 cm in the center of the dredge. Samples were collected in pre-cleaned wide mouth glass jars and taken to the lab where they were immediately frozen. Samples were shipped to Batelle Pacific Northwest National Lab for analysis for AVS/SEM, total organic carbon, and grain size. Samples of benthic macroinvertebrates were also collected at the same sites via the Ekman dredge.

Sediment samples were extracted and analyzed for AVS in accordance with Battelle SOP MSL-C-001. This procedure is based on a peer-reviewed, published procedure for the analysis of AVS in sediment and dissolved sulfide in aqueous samples, adopted from a draft USEPA Method (Allen et al. 1991). In this method, sulfide in the sample is converted to hydrogen sulfide by the addition of hydrochloric acid at room temperature. The hydrogen sulfide (H_2S) is purged from the sample by an inert gas and trapped in a sodium hydroxide (NaOH) solution. With the addition of a mixed-diamine reagent (MDR), the sulfide is converted to methylene blue and measured on a spectrometer. AVS results were reported in units of µmole/g on a dry-weight basis.

The SEM extracts were analyzed for all other metals by Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) in accordance with Battelle SOP MSL-I-022, Determination of Elements in Aqueous and Digestate Samples by ICP/MS. The analysis guidelines for this procedure are adapted from USEPA Method 1638 Determination of Trace Elements in Ambient Waters by Inductively Coupled Plasma- Mass Spectrometry. The SEM metal solution concentrations were determined in units of µg/L and then converted to µg SEM/g of sediment extracted for AVS. These data were further converted to µmole/g for each SEM metal.

Results

The potential toxicity of the sediments was evaluated by three methods, 1) comparison of the concentrations of metals in the bulk sample to sediment quality guidelines (MacDonald et al 2000), 2) AVS/SEM, and 3) biomonitoring of macroinvertebrate communities at the two stations.

Bulk Chemistry

Concentrations of five metals (Cd, Cu, Ni, Pb, and Zn) were compared to threshold effects concentrations (TEC) and probable effects concentrations (PEC) determined by consensus of leading researchers in the field (MacDonald et al. 2000). TECs are concentrations of metals in bulk sediments below which there were negative effects in less than 25% of sediments in studies from the literature and are unlikely to cause adverse effects on aquatic biota. PECs are concentrations in bulk sediments above which there were effects in more than 75% of the sediments studied and above which adverse effects are probable. The results showed that total concentrations of all five metals were well below the TEC at both stations (Table 3.3.1). While SEM metals may be only a fraction of total metals (as low as 13% for copper, Warren Boothman personal communication, EPA NHEERL, AED, Narragansett, RI), adjusted total copper concentrations would be below the PEC at both stations. In these samples bioavailability was not an issue.

AVS/SEM

Simultaneously extracted metals (SEM) were generally similar at both Rt117 and Rt26 (Table 3.3.1). Relative percent difference between duplicates was within the data quality objective (25%) except for copper (33-35%). Acid volatile sulfides (AVS) were significantly greater than SEM at Rt26 (AVS/SEM>1) indicating that the metals were bound and not bioavailable to cause toxicity. To the contrary, AVS were much lower than SEM at the upstream station at Rt117 (AVS/SEM<1), suggesting that some metal may be bioavailable for toxicity. Zinc appeared to be the metal with the largest effect, but the concentration was still well below the TEC and total zinc would be well below the PEC, as was the case for all the metals.

Total organic carbon was slightly lower and grain size was generally more coarse at Rt117 reflecting the absence of the discharges from PUD and Norway and urban runoff from both South Paris and Norway. These results are consistent with the lower AVS at this site. The higher AVS at Rt26 was likely due to the discharges and urban runoff.

Table 3.3.1. Acid volatile sulfides-simultaneously extracted metals (AVS-SEM), total organic carbon (TOC), and grain size (GS) in sediments from the Little Androscoggin River above (Rt117) and below (Rt 26) the Norway and Paris Utilities District sewage treatment plant discharges.

METRIC	RT 117 ug/g	RT 117 ug/g DUP	RT 26 ug/g	RT 26 ug/g DUP	TEC[1] ug/g	PEC[1] ug/g	RT 117 umole/g	RT 117 umole/g DUP	RT26 umole/g	RT26 umole/g DUP
AVS							**0.487**	**0.465**	**1.33**	**1.66**
SEM Cd	0.321	0.317	0.221	0.250	0.99	4.98	0.00285	0.00282	0.00197	0.00223
SEM Cu	4.39	6.11	6.92	9.83	31.6	149	0.0690	0.0962	0.109	0.155
SEM Ni	1.38	1.48	1.45	1.73	22.7	48.6	0.0234	0.0252	0.0247	0.0294
SEM Pb	10.6	10.2	18.3	20.2	35.8	128	0.0513	0.0493	0.0882	0.0977
SEM Zn	38.2	39.2	26.2	26.7	121	459	0.584	0.600	0.401	0.409
SEM SUM							**0.731**	**0.774**	**0.625**	**0.693**
AVS/SEM							**0.7**	**0.6**	**2.1**	**2.4**
% TOC	5.39		6.78							
% SOLIDS	43.6	43.6	46.2	46.2						
GRAIN SIZE %										
GRAVEL, MED	0.19		0.97							
GRAVEL FINE	2.32		1.07							
SAND, VERY COARSE	7.00		2.67							
SAND, COARSE	6.26		2.93							
SAND, MEDIUM	8.98		3.43							
SAND, FINE	39.1		24.7							
SAND, VERY FINE	11.8		18.8							
SILT	18.7		38.8							
CLAY	1.11		0.62							
% TOTAL WT RECOVERED	95.5		94.0							
% SOLIDS	32.1		30.4							

[1] TEC= threshold effect concentration, PEC = probable effect concentration+A5. From MacDonald et al. 2000

References

Allen, H.E., F. Gongmin, W. Boothman, D. DiToro, and J. Mahoney. 1991. Determination of Acid Volatile Sulfides (AVS) and Simultaneously Extracted Metals in Sediment. Draft Analytical Method for Determination of Acid Volatile Sulfide in Sediment. USEPA Office of Science and Technology, Washington, DC. April, 1991.

*Ankley, G. T., Di Toro, D. M., Hansen, D. J., and Berry W. J. 1996. Technical basis and proposal for deriving sediment quality criteria for metals. Environmental Toxicology and Chemistry. 15:2056-2066.

Berry, W. J., Hansen, D. J., Mahony, J. D., Robson, D. L., Di Toro, D. M., Shipley, B.P., Corbin, J. M. and Boothman, W. S. 1996. Predicting the toxicity of metals-spiked laboratory sediments using acid-volatile sulfide and interstitial water normalization.Environmental Toxicology and Chemistry. 15:2067-2079.

EPA, 2002. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver, and Zinc), EPA-600-R-02-011, Environmental Protection Agency, Washington, DC 20460

MacDonald, D.D., C.G. Ingersoll, and T.A. Berger, 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.

Morse, J. W., Millero, F. J., Cornwell, J. C. and Rickard, D. 1987. The chemistry of thehydrogen sulfide and iron sulfide systems in natural waters. Earth Science Review.24:1-42.

3.3.2. Biomonitoring

It was difficult finding organic sediments to sample at these two stations and the sediment samples were not large. Consequently, the results should be considered essentially qualitative. Analysis of the benthic communities from the dredge samples reflect differences among habitats at the two stations. LAR117 was in an impoundment with much decaying leaves and deep organic sediments, while LAR 26 is a cove in a free flowing reach with some aquatic macrophytes and a shallow (perhaps seasonal) organic layer over sand. There were slightly different community structures for the two stations, validated by reasonable duplication for the two sampling periods (Table 3.3.2). The abundance of benthic macroinvertebrates was greater at LAR26 than at LAR117, likely reflecting the influence of the discharges. There were more burrowing mayflies (Ephemeridae) at LAR117, perhaps due to deeper sediments there. Sialidae (alderfly larvae) prefer standing water with soft organic substrates with lots of organic matter such as dead leaves, such as occurs at LAR117, rather than flowing water as occurred at LAR26. Amphipoda typically fill a shredder functional feeding niche and were also more abundant at LAR117. Nevertheless, even though these data are quite limited, there was no indication that the communities at either station were impacted to the extent of not attaining the classification of the river. This finding is congruent with the results of biomonitoring of macroinvertebrate communities at the surface of the substrate using rock basket artificial substrates from previous years, which indicated attainment of the criteria for the classification of the river.

Table 3.3.2. Number of macroinvertebrates in Little Androscoggin River dredge samples, 2010.

Taxon	LAR26 8/13/2010	LAR26 10/14/2010	LAR117 8/13/2010	LAR117 10/14/2010
Elmidae	15	2	1	
Tabanidae	1	2	1	
Chironomidae	226	54	75	14
Gastropoda	5		4	
Pelecypoda	26	12		
Oligochaeta	13	8	2	
Ceratopogonid	2	7	1	1
Tipulidae		10		
Chaorboridae	1			
Psychodidae		1		
Amphipoda				7
Sialidae			7	4
Ephemeridae			1	6
Libellulidae			1	

3.3.3. Fish Populations

While biomonitoring of macroinvertebrate benthic communities is one method of assessing any impact of point source discharges of municipal or industrial wastewater on aquatic life, the macroinvertebrate community is only one component of aquatic community. Often, other groups, such as fish are more sensitive to some toxic pollutants as shown by species mean acute values calculated by EPA for the development of AWQC. In addition to heavy metals, organic chemicals may affect aquatic communities. Organic endocrine disrupting chemicals (EDCs), such as nonyl phenol (NP), the human birth control estrogen ethinylestradiol (EE2), and other synthetic compounds have been shown in the lab to disrupt the reproductive pathway of fish populations at concentrations found in some streams with municipal sewage treatment plant (STP) discharges (Jobling et al. 2006). Concentrations ranging from 1% to 20% STP effluent have been shown to disrupt reproductive development in fish (Dube et al. 2003; Liney et al. 2006; Iwanowicz et al. 2009).

While DEP has stressor based laboratory programs to assess the potential effects of STP discharges on fish in Maine rivers, those programs are able to detect only relatively gross impacts and may not detect the impact of EDCs. Effects based biological field studies may be able to detect more subtle but important impacts from EDCs or other factors. DEP intends to conduct field studies to investigate those rivers most likely to be impacted first, i.e. those below dischargers with the lowest dilution and highest receiving water concentration (RWC) of STP wastewaters. The RWC of the PUD discharge is 20% at critical (7Q10) low river flow. To evaluate the potential impact of the PUD discharge in general and or the exceedance of the AWQC for copper specifically, DEP conducted a fish assemblage study of the Little Androscoggin River in August 2010.

Three stations were selected to be studied, 1) LARa, immediately above the PUD discharge, 2) LARb, immediately below the PUD discharge but above the Norway discharge ~0.5 miles below, and 3) LAR26, the Rt 26 crossing ~ 2.5 miles below the Norway discharge. The habitats were all

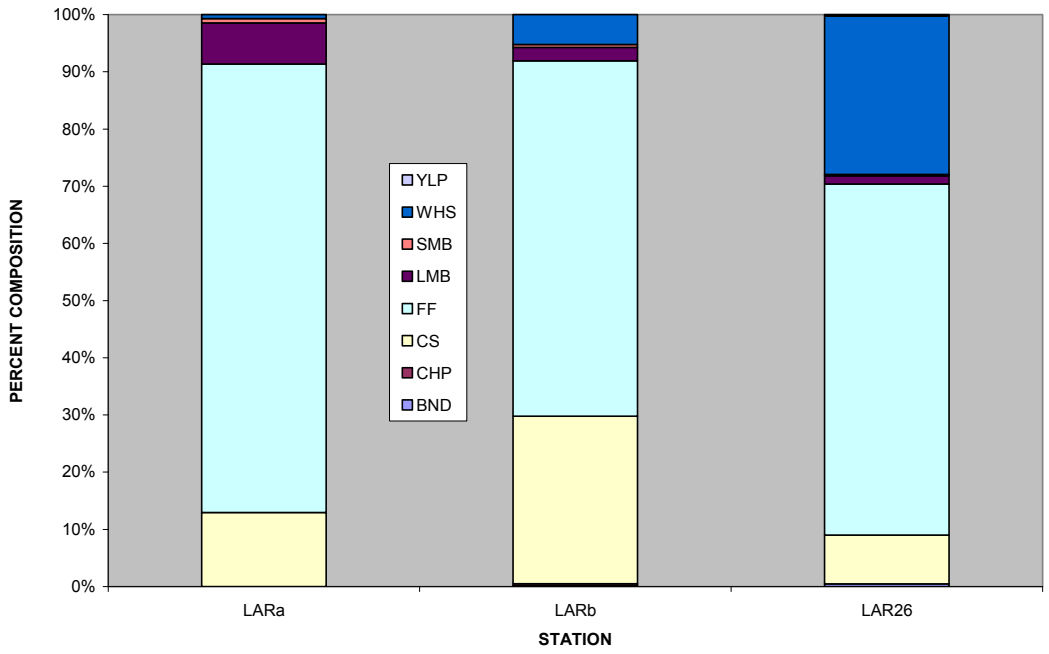
generally similar alternating runs and riffles, although the substrate varied somewhat (Figure 3.3.2). Norway holds its effluent and does not discharge from mid June to end of August each summer. The year 2010 offered a good opportunity for the study as it was a relatively dry warm year, and, consequently, during the study river flow was low (10-12 cfs) approaching 7Q10 (4 cfs). Fish were sampled by use of a small beach seine in targeted riffle and run habitats. Consequently, density estimates could not be made.

The results show a total of eight species present (Figure 3.3.1), although anglers report catching brook trout (Salvelinus fontinalis) as well. The most common species were fallfish (Semotilus corporalis), common shiner (Luxilus cornutus) and white sucker (Catostomus commersoni) although the order varied among stations. Fallfish were most abundant at all three stations but diminished slightly at the two stations below the discharges. At LARb common shiners replaced some of the fallfish in abundance, whereas at LAR26 white sucker replaced some of the fallfish.

Table 3.3.3. Habitats at Little Androscoggin fish sampling stations, 2010

METRIC	LARa	LARb	LAR26
WIDTH m	5-7	5-6	6-9
DEPTH m	0.3	0.4	0.2
VELOCITY m/s	0.3	0.3	0.3
% COBBLE	50	20	0
% GRAVEL	25	40	10
% SAND	25	40	90
ALGAE	10%	15%	0%

Figure 3.3.1. Percent composition of fish species in the Little Androscoggin River seine samples by station, 2010



Fulton's condition factor (K), weight divided by length cubed, is a measure of fitness of fish. Examination of condition factors for the three most common species and largemouth bass showed some significant ($p<0.05$) differences (Table 3.3.4). Only one white sucker was captured at LARa and consequently no comparison was made between that station and LARb. Common shiners had higher K below the PUD discharge than either of stations upstream or downstream. This result parallels the increase in relative abundance of common shiners at LARb. On the contrary, there was no difference in K for fallfish among all the stations or in white sucker for the lower two stations, despite changes in relative abundance among these stations.

Table 3.3.4. Condition factor (K) in fish from three stations in the Little Androscoggin River, 2010

SPECIES	LARa K	LARb K	LARb p	LAR26 K	LAR26 p
BND		0.87		0.79	
CHP		0.54			
CS	0.72	0.82*	0.003	0.73*	0.000
FF	0.82	0.83	0.248	0.82	0.680
LMB	1.13	1.2	0.169	1.06*	0.030
SMB	1.26	1.45		1.21	
WHS	0.85	0.94		0.93	0.553
YLP				0.88	

* = significally different from upstream station in a t-test

These differences in species composition and K may reflect the subtle effects of the discharges. LARa has no upstream discharges and little urban runoff, while LARb has the PUD discharge and some urban runoff, and LAR26 has an additional discharge from Norway at some times of the year as well as additional urban runoff. The differences in relative abundance and K among the three species may be a result of the different types and abundance of nutritional resources at the different sites. White sucker are bottom feeders and the increase at LAR26 may reflect a response to increased organic sediments and food supply therein below the two STPs and urban runoff. Common shiners and fallfish primarily feed on the surface. Fallfish prefer clear gravel bottom streams, which may explain their maximum abundance at LARa, which is above all the discharges and urban runoff and has the clearest water. Despite these small differences in species composition and K, there was no indication of large scale impacts below the PUD discharge.

PUD has submitted a report with a requested site-specific criterion for copper for the Little Androscoggin River developed using the Biotic Ligand Model. DEP will evaluate the request in light of the sediment issue discussed above.

References

Dube, MG, Cash KJ, MaClatchy DL, Firth BK, Culp JM, and Glozier NE, 2004. Using Mesocosms to Explore Confounding Factors Influencing Longnose Dace (*Rhinichthys cataractae*) Responses to Kraft Mill Effluent on the Wapiti River, AB, Canada. In Borton, D.L , T.J. Hall, R.P. Fisher, and J.F. Thomas (eds) Proceedings of the 5th International Conference on Fate and Effects of Pulp and Paper Mill Effluents, Seattle, Washington, USA, June 1-4, 2003. pp 481-490. DEStech Publications Inc., Lancaster, PA, USA

Iwanowicz LR, Blazer VS, Guy CP, Pinkney AE, Mullican JE, Alverez DA. 2009. Reproductive health of bass in the Potomac, USA, drainage: Part 1. Exploring the effects of proximity to wastewater treatment plant discharge. Environ Toxicol Chem 28(5):1072-1083.

Jobling S, Williams R, Johnson A, Taylor A, Gross-Sorokin M, Nolan M, Tyler CR, van Aerle R, Santos E, Brighty G. 2006. Predicted exposures to steroid estrogens in U.K. rivers correlate with widespread sexual disruption in wild fish populations. Environ Health Perspect 114(S-1):32-9.

Liney KE, Hagger JA, Tyler CR, Depledge MH, Galloway TS, Jobling S. 2006. Health effects in fish of long-term exposure to effluents from wastewater treatment works. Environ Health Pers 114(S1):81-89.

3.4. FISH SCALES AS NON-LETHAL BIOSENSORS OF SURFACE WATER CONTAMINANTS

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Abstract

There is great need for non-lethal, biologically relevant screening tools for assessing the effects of surface water contaminants on threatened or endangered fish species. Typical screening procedures are highly invasive or lethal to the fish. Recent studies show that fish scales biochemically respond to a range of contaminants, including toxic metals, organic compounds, and endocrine disruptors. Fish scales can be collected rapidly and non-lethally from fish, and are regularly collected by state and federal agencies, such as NOAA, DMR, and IFW. The overall goal of our work is to evaluate fish scales as non-lethal biosensors for pharmaceuticals, organic contaminants, endocrine disruptors, metals, and contaminant mixtures. We used cytochrome P4501A (CYP1A) as a biomarker for exposure to pharmaceuticals and organic contaminants (Meyers, 2009; van der Oost et al. 2003; Quiros et al. 2007) and will use estrogen receptor (ER) as a biomarker for endocrine disruptors (van der Oost et al. 2003; Pinto et al. 2009), and metallothionein (MT) as a biomarker for toxic metals (van der Oost et al. 2003; Suzuki et al. 2004); each of these biomarkers is inducible in fish scales (Meyers, 2009, Suzuki et al. 2003; Suzuki et al. 2004; Quiros et al. 2007; Pinto et al. 2009; Suzuki et al. 2009). Our hypotheses were that 1) biomarkers in fish scales can be used as contaminant biosensors and 2) these biomarkers are reliable in contaminant mixtures. We used Atlantic salmon (*Salmo salar*) as the test species. Atlantic salmon are an endangered diadromous fish, the smolts and adults of which migrate through polluted areas. Our project objectives were to 1) establish protocols for fish scale collection, storage, and biochemical analyses, and 2) evaluate biomarker induction in scales of *S. salar* exposed to contaminants. We have determined that the pollutant biomarker, cytochrome P4501A (CYP1A)) is 1) inducible in scales of Atlantic salmon (*Salmo salar*) parr aqueously exposed to polychlorinated biphenyls and polynuclear aromatic hydrocarbons, 2) is expressed in the epidermal covering of these scales as well as in scale osteocytes, and 3) is reliably and sensitively measured using RNA isolated from fish scales that can be stored indefinitely after scale collection. We optimized isolation of high quality RNA from fish scales for use in quantitative (real-time) reverse-transcriptase polymerase chain reaction (qRT-PCR) assays to detect fish exposure and biochemical response to chlorinated and polynuclear aromatic hydrocarbon contaminants. The strength of the scale assay is that it provides an *in vivo* biosensor of fish response (e.g. scales from wild-caught or caged fish can be used as first pass sensors to evaluate water quality in a given habitat). This technique could be used with any scale-bearing fish species. Screening for contaminants using fish scales provides a rapid, inexpensive, non-lethal and biologically relevant first pass indicator of water quality for sensing the presence of bioactive chemicals in surface water and the exposure to such compounds by endangered and threatened fish species.

Approach

Fish: Source and Maintenance

Juvenile land-locked Atlantic salmon (*Salmo salar*) were obtained from Grand Lake Stream hatchery (Maine) and maintained at the University of Maine Aquaculture Research Center. Fish were held in flow-through tanks at seasonally appropriate temperatures and light cycles and fed daily with trout chow provided by the hatchery. Fish were anesthetized with buffered MS222 prior to removal of scales. MS222 does not affect the activity of biotransformation enzymes in fish, including CYP1A (Kolanczyk et al. 2003). The ability to store scales indefinitely in RNALater™ for molecular assays (e.g. RT-PCR) makes scales ideal for field-collection.

Fish Exposure

To induce CYP1A expression, we exposed Atlantic salmon parr to the organic contaminants 3,4,3',4',5-pentachlorobiphenyl (PCB126) and β-naphthoflavone (βNF). In each experiment, fish were exposed to aqueous doses of PCB126 (0.3, 3.27 and 32.7 ppb), βNF (330 ppb), vehicle (40 ppb acetone) or no treatment for 48 hours using 3 to 5 fish per dose, depending on the experiment.

Endpoints

We used three endpoints to evaluate CYP1A in fish scales: enzyme activity, protein location, and gene (mRNA) expression. Catalytic analysis of scale CYP1A is the most rapid way to determine if the induction of CYP1A is successful prior to conducting more time consuming analyses. To confirm the findings of Jen Meyers, a previous student in Dr. Elskus's lab, and to confirm the induction of CYP1A enzyme activity in our fish, we used the ethoxyresorufin-o-deethylase (EROD) assay (Meyers, 2009), with 15 scales per well, 3 wells per fish in a 96-well plate format, using 7-ethoxyresorufin as the substrate, essentially as described (Elskus et al. 1999).

To determine whether CYP1A is expressed in fish scale osteocytes or the epidermal covering of the scale, we used immunohistochemistry (IHC) analysis. We collected three 2 cm^3 skin samples and one small snip of liver tissue, fixed these in formalin and had them paraffin embedded and sectioned (5 micron thick) by the University of Maine's Aquatic Animal Health Diagnostics Laboratory. We performed the IHC analyses at the Woods Hole Oceanographic Institution in the laboratory of Dr. John Stegeman under the supervision of Bruce Woodin. Three sets of slides were cut, and stained with hematoxylin and eosin (to establish tissue architecture), probed with MOPC 31 (non-specific antibody), or probed with MAb 1-12-3 (CYP1A specific antibody), essentially as described (Kloepper-Sams et al. 1987; Elskus et al. 1999). The H&E stained tissue layers were identified using Amin et al. 1992. The anti-body probed sections were examined under a microscope and stained tissues assigned scores for "Occurrence" (0-3) and "Intensity" (0-5) of staining, with final scores calculated as "Occurrence X Intensity" (0-15), as described (Elskus et al. 1999).

To measure scale CYP1A gene (mRNA) expression, we used quantitative real time polymerase chain reaction (qRT-PCR). Scales removed from treated fish were placed in RNAlater™, which allows indefinite storage at -20 C. We extracted RNA from the scales (30+ scales per sample per fish) and reverse transcribed the RNA to cDNA. We identified *S. salar* specific primers and optimized qRT-PCR parameters for *S. salar* (CYP1A and β-actin primer concentration and cDNA template concentration). Amplified scale CYP1A cDNA was quantified using the method of Pfaffl (Pfaffl 2001).

Results

Scale Architecture

The scales are arranged in an imbrication pattern, each partially encased in an epidermal 'pocket' that is partially retained when the scale is removed (Fig 1). It is within this epidermal covering, rather than in the scale bone itself, that we believe the CYP1A protein is expressed, based on our IHC results (see below).

CYP1A catalytic activity

As expected, CYP1A enzyme activity was induced over controls in the scales of βNF- and PCB126-treated fish, with a strong dose-response evident in PCB126-treated fish (Fig 3). This established CYP1A response in the fish scales, allowing us to proceed with IHC and qPCR analyses.

CYP1A protein location

CYP1A protein staining was present in all skin tissue layers (epidermis, scale, dermis, fat, and muscle) and in the liver of βNF- and PCB126-treated fish (Figs 2, 4). From these results, it appeared that CYP1A is expressed in the epidermal covering of the scale, rather than in scale bone cells. Although we observed staining in the vicinity of the scale bone in some samples, we believed this to be a staining artifact, due to physical capture of stain precipitate by the circuli of the scales, rather than staining of CYP1A protein in living osteocytes. We re-ran the IHC assays on new sections from these blocks at WHOI in March 2011 and discovered that, in fact, the scale osteocytes are expressing CYP1A. Thus the signal we observed and measured earlier was not an artifact but was indeed true staining.

Scale CYP1A mRNA expression

We identified 30 as a sufficient number of scales for extracting good quality, high yield scale RNA. An earlier paper (Quiros et al. 2007) used 1 – 3 scales per fish, however our trials with fewer scales (1 – 10) produced low yield, poor quality RNA (data not shown).

Scale CYP1A gene expression was elevated in all treated fish relative to the controls, with a strong dose-response in scales of PCB126 treated fish (Figs 4 & 5).

Discussion

Scale CYP1A enzyme activity is readily inducible in PCB126- and βNF-treated fish and is easily measured through EROD, but ultimately EROD is not a field friendly assay. Meyers (2009) reported rapid (hours) and sustained (34 days) induction in scales from *S. salar* exposed to PCB126 for 24 hours. We confirmed rapid induction of scale CYP1A activity by organic contaminants. Unfortunately, the need for rapid analysis of enzyme activity (within 24 h of scale collection, Meyers, 2009) makes scale CYP1A enzyme activity unsuitable for field-collected samples.

CYP1A protein in scales is likely located in the epidermal tissue surrounding the scales and not in the scales themselves. The aryl hydrocarbon receptor (AhR), which regulates CYP1A induction, is expressed in the osteocytes of mouse bone cells (Wejheden et al. 2010), but AhR expression in fish scale osteocytes is unexplored. We observed unmistakable CYP1A staining in scale osteocytes, indicating that like mouse bone, it is likely AhR is expressed in fish scale osteocytes as well. Work in fathead minnows identified CYP1A expression in chondroid cells (hyaline cartilage), which are

associated with skeletal formation {Iwata, 2000 #20299; Lindstromseppa, 1994 #20306}, but we know of no other work investigating CYP1A or AhR expression in fish bone cells.

We demonstrated that CYP1A gene expression in scales is strongly induced by organic contaminants. Scale CYP1A mRNA expression differed 1,500-4,000 fold from controls in juvenile salmon aqueously exposed for 48 hours to 330 ppb βNF using 30 scales/sample. In the only other comparable study published to date, scale CYP1A mRNA expression was induced 10 to 50 fold over controls in goldfish (*Carassius auratus*) injected intraperitoneally with 50 mg βNF/kg (50,000 ppb) with signal measured 8-72 h post-exposure using 1-3 scales/sample (Quiros et al. 2007). The difference between these outcomes could be due to differences between species, routes of exposure, exposure time, dose, number of scales extracted, and quality of the RNA extracted. Our work is the first to report scale CYP1A mRNA induction by a chlorinated inducer (PCB126), with strong dose-response to this toxicant.

Our work demonstrates that scale CYP1A mRNA is a sensitive indicator of fish exposure to organic contaminants that is non-lethal, field-friendly (i.e. scales can be stored indefinitely prior to processing), and easily measured. We are continuing this project and will next evaluate CYP1A mRNA expression in scales of Atlantic salmon exposed to the pharmaceutical fluoxetine (Prozac). To evaluate scales as biomarkers for other prominent contaminant classes we will evaluate scale biomarkers for endocrine disruptors (estrogen receptor (ER) mRNA, Pinto et al. 2009) and toxic metals (metallothionein (MT) mRNA, Suzuki et al. 2004)). Because fish are exposed to mixtures of contaminants, which can alter the expression of biomarkers in various ways, we will evaluate mixture effects on scale CYP1A, ER, and MT mRNA expression. We will evaluate our mixture results based on published interactions that indicate metals can inhibit ER mRNA expression (Suzuki et al. 2004) and estrogens can inhibit CYP1A mRNA expression (Navas et al. 2001).
As chemical-specific biomarkers do not currently exist for any pollutant, our aim is to detect inappropriate up-regulation of genes by different classes of chemicals as an indicator of potential water quality issues. We selected endpoints based on their low expression levels in un-impacted fish: ER mRNA levels are vanishingly low in male and juvenile fish not exposed to estrogens, MT levels are low in fish not exposed to exogenous metals, and CYP1A is nearly non-detectable except in fish exposed to certain organic contaminants. In isolation, these endpoints are not indicative of toxic effects. Rather, induction of these biochemical responses points to potential problems with water quality, triggering in-depth water chemistry analysis targeting the chemical classes inducing these endpoints. Scale biosensors are not meant to identify contaminant concentrations, except in a relative sense (absence/presence, low/high concentrations). While biochemical responses to toxicants may differ among tissues, the strength of any sensor lies in its ability to respond to the chemicals of interest.

References

Amin, A.B., Mortensen, L., Poppe, T.T., 1992. Histology Atlas: Normal Structure of Salmonids. Akcvapatologisk Laboratorium AS, Bodo, Norway.

Elskus, A.A., Monosson, E., McElroy, A.E., Stegeman, J.J., Woltering, D.S., 1999. Altered CYP1A expression in *Fundulus heteroclitus* adults and larvae: a sign of pollutant resistance? Aquatic Toxicology 45, 99-113.

Kloepper-Sams, P.J., Park, S.S., Gelboin, H.V., Stegeman, J.J., 1987. Specificity and cross-reactivity of monoclonal and polyclonal antibodies against cytochrome P450E of the marine fish scup. Arch. Biochem. Biophys. 253, 268-278.

Kolanczyk, R.C., Fitzsimmons, P.N., McKim, J.M., Erickson, R.J., Schmieder, P.K., 2003. Effects of anesthesia (tricaine methanesulfonate, MS222) on liver biotransformation in rainbow trout (*Oncorhynchus mykiss*). Aquatic Toxicology 64, 177-184.

Navas, J.M., Segner, H., 2001. Estrogen-mediated suppression of cytochrome P4501A (CYP1A) expression in rainbow trout hepatocytes: role of estrogen receptor. Chemico-Biological Interactions 138, 285-298.

Pfaffl, M.W., 2001. A new mathematical model for relative quantification in real-time RT-PCR. Nucleic Acids Research 29.

Pinto, P.I.S., Estêvão, M.D., Redruello, B., Socorro, S.M., Canário, A.V.M., Power, D.M., 2009. Immunohistochemical detection of estrogen receptors in fish scales. General and Comparative Endocrinology 160, 19-29.

Quiros, L., Raldua, D., Navarro, A., Casado, M., Barcelo, D., Pina, B., 2007. A noninvasive test of exposition to toxicants: quantitative analysis of cytochrome P4501A expression in fish scales. Environ Toxicol Chem 26, 2179-2186.

Suzuki, N., Hayakawa, K., Kameda, T., Triba, A., Tang, N., Tabata, M.J., Takada, K., Wada, S., Omori, K., Srivastav, A.K., Mishima, H., Hattori, A., 2009. Monohydroxylated polycyclic aromatic hydrocarbons inhibit both osteoclastic and osteoblastic activities in teleost scales. Life Sciences 84, 482-488.

Suzuki, N., Kambegawa, A., Hattori, A., 2003. Bisphenol A influences the plasma calcium level and inhibits calcitonin secretion in goldfish. Zoological Science 20, 745-748.

Suzuki, N., Yamamoto, M., Watanabe, K., Kambegawa, A., Hattori, A., 2004. Both mercury and cadmium directly influence calcium homeostasis resulting from the suppression of scale bone cells: the scale is a good model for the evaluation of heavy metals in bone metabolism. Journal of Bone And Mineral Metabolism 22, 439-446.

van der Oost, R., Beyer, J., Vermeulen, N.P.E., 2003. Fish bioaccumulation and biomarkers in environmental risk assessment: a review. Environmental Toxicology and Pharmacology 13, 57-149.

Wejheden, C., Brunnberg, S., Larsson, S., Lind, P.M., Andersson, G., Hanberg, A., 2010. Transgenic mice with a constitutively active aryl hydrocarbon receptor (CA-AhR) display a gender specific bone phenotype. Toxicological Sciences 114, 48-58.

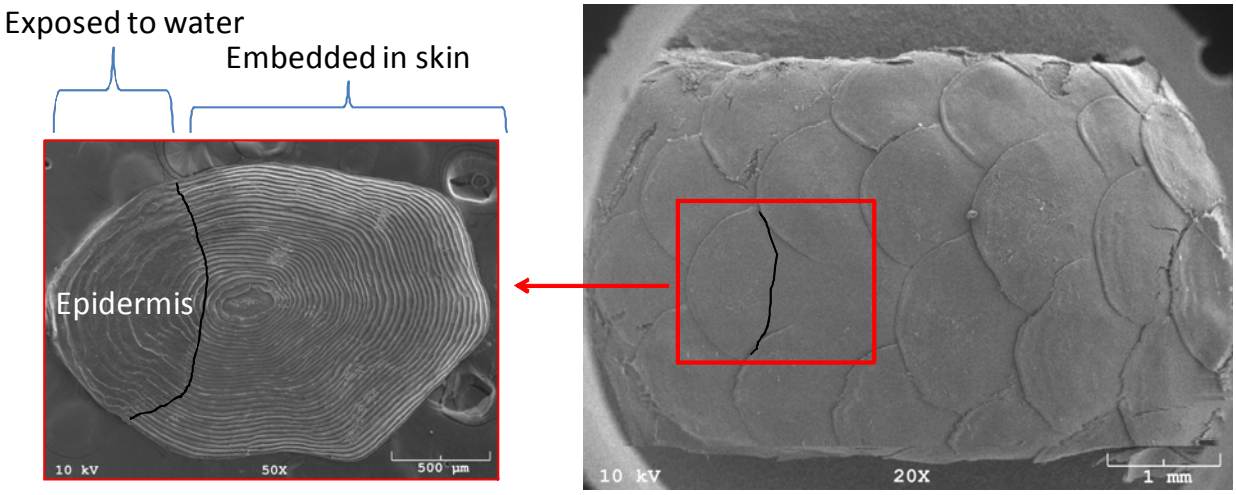


Figure 1. Light microscope (left) and scanning electron microscope (right) images of *S. salar* scale (left) and skin sample (right) . Black line indicates extent of epidermal covering left on scale after removal. Images courtesy of E. Kelly, University of Maine.

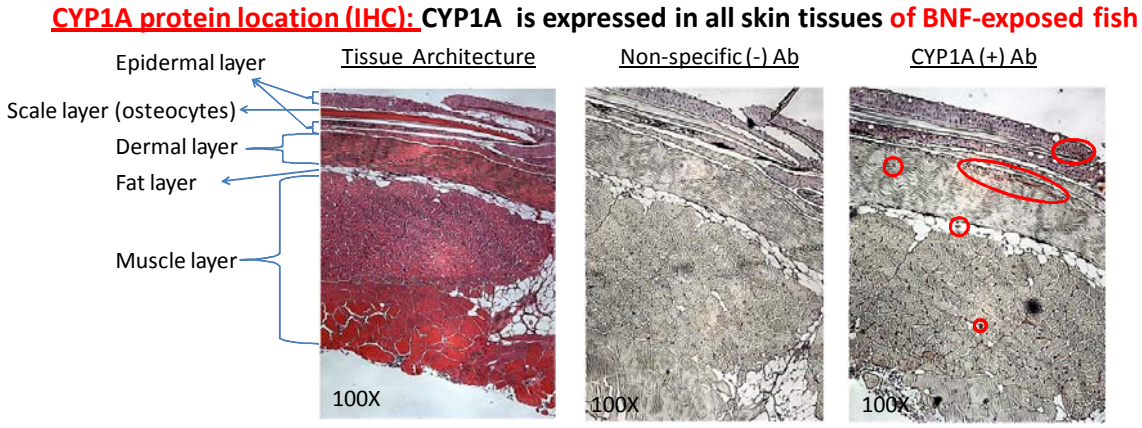


Figure 2. Histology sections of skin from a ßNF-exposed fish. Red circles indicate CYP1A protein staining

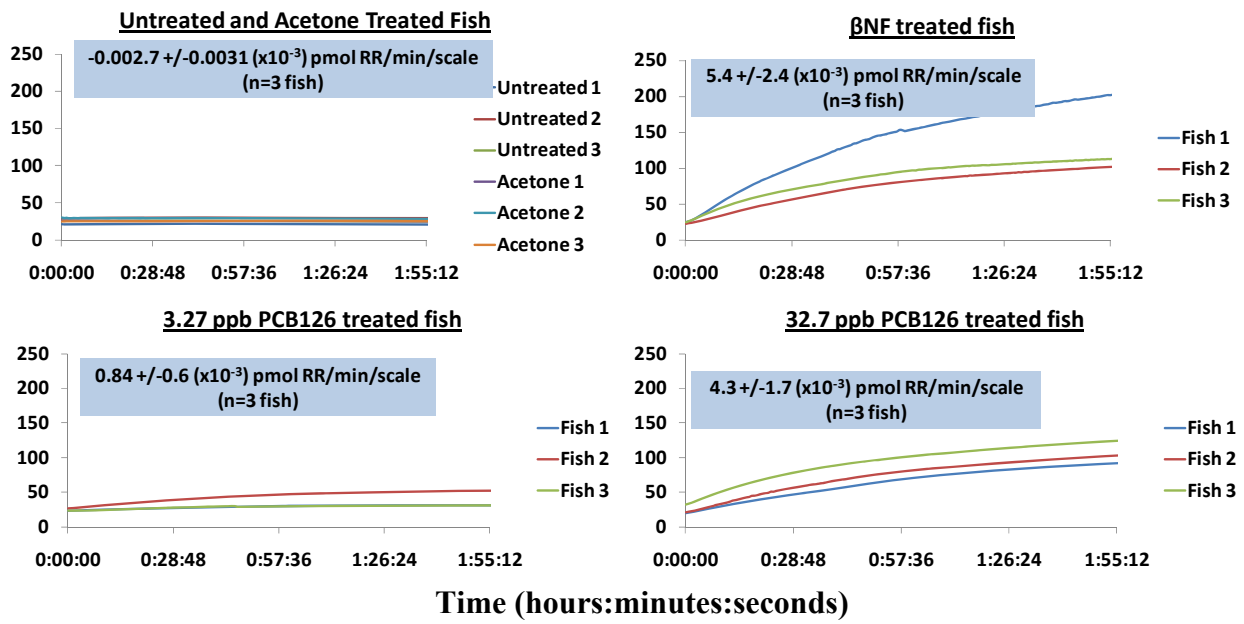


Figure 3. Representative CYP1A activity profiles of *S. salar* scales (15 scales/well; 3 wells/fish) from fish exposed for 48 hours to vehicle (acetone), PCB126 (3.27 or 32.7 ppb) or BNF (330 ppb) in the water. Y-axis is relative fluorescence units x 1000.

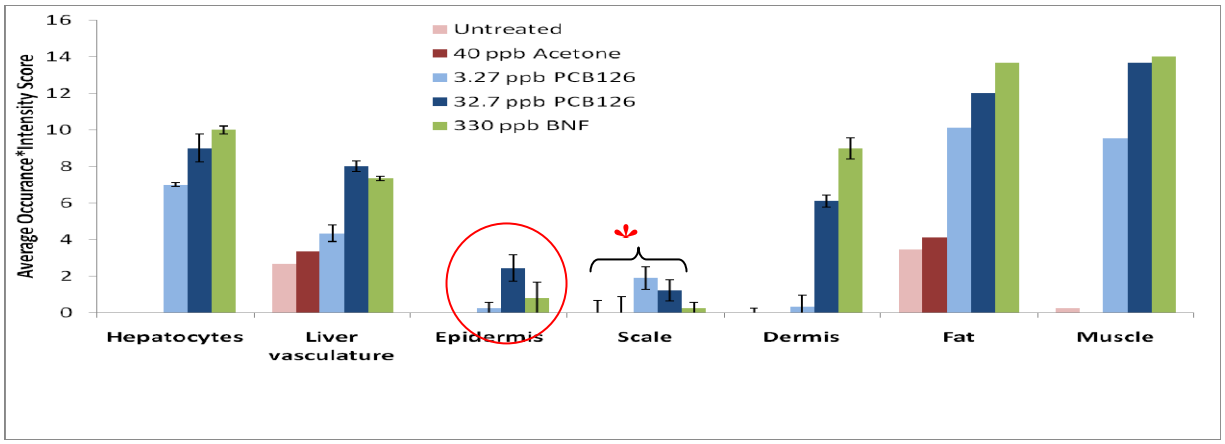


Figure 4. Relative CYP1A protein expression in liver and skin layers of contaminant-exposed fish. Staining was observed in epidermis (red circle) with faint staining in scale osteocytes (**). Mean IHC score +/- SE (n=3). The IHC assay was repeated in March 2011 with much stronger staining in all tissues; those sections are currently being scored.

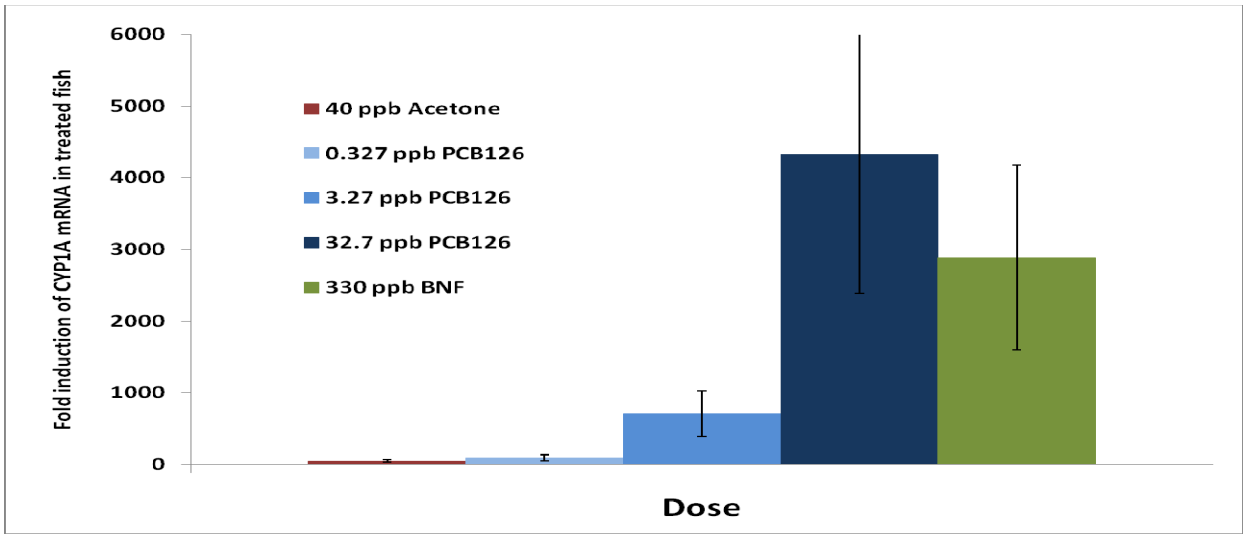
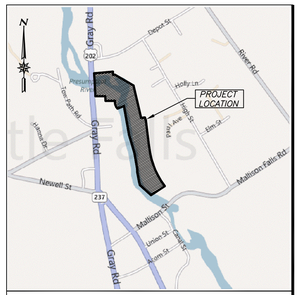
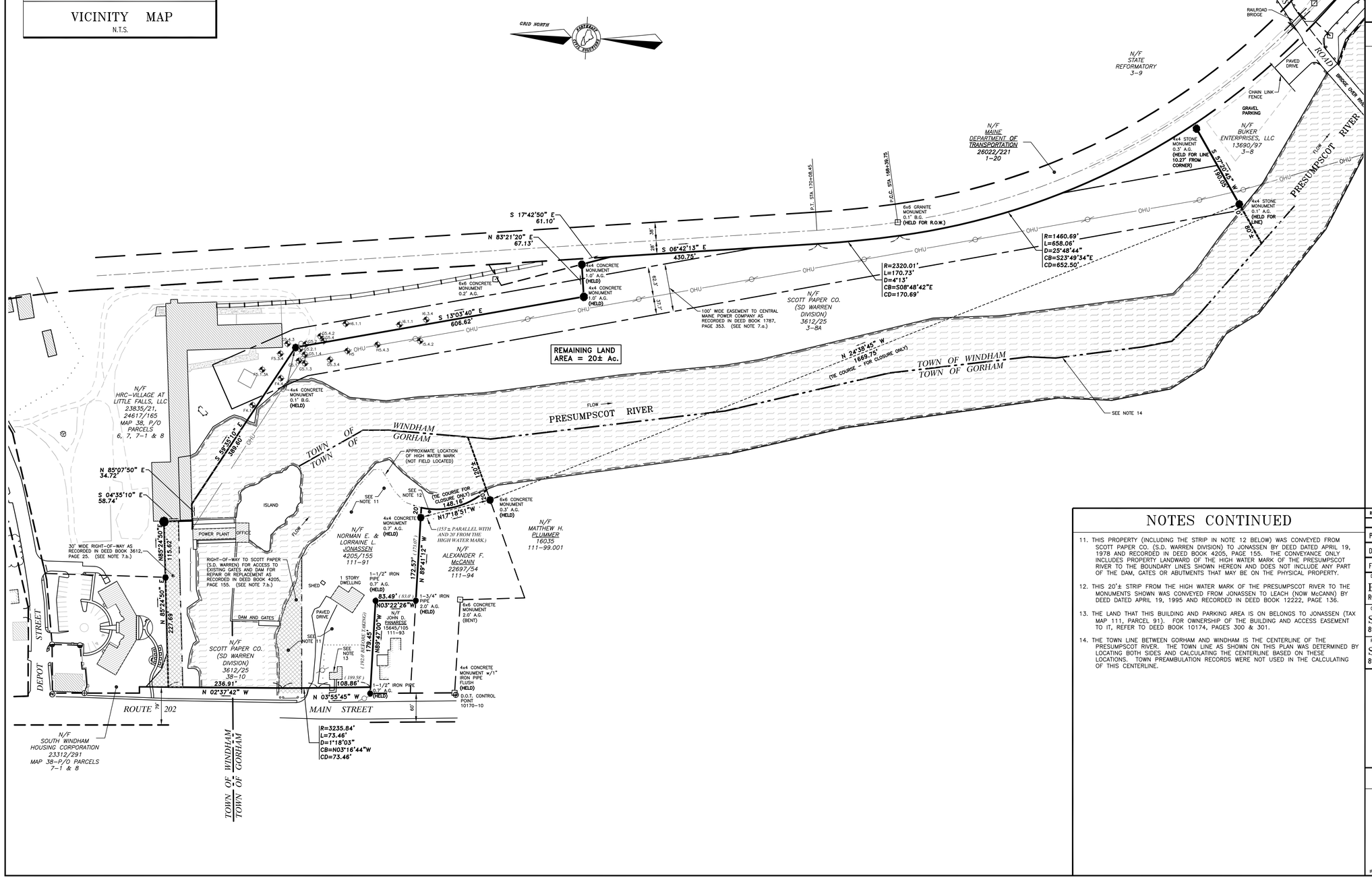


Figure 5. CYP1A mRNA expression fold induction in treated fish relative to controls. CYP1A mRNA values normalized to β-actin mRNA using the Pfaffl (2001) method. Mean +/- SE (n=5 fish).



VICINITY MAP
N.T.S.



LEGEND

	FOUND IRON PIPE (SIZE & TYPE AS NOTED)
	FOUND MONUMENT (SIZE & TYPE AS NOTED)
	FOUND DRILL HOLE
	FOUND IRON ROD
	CAPPED REBAR FOUND (NCS INC PLS 1314)
	SOIL TEST PIT
	UTILITY POLE (NUMBER AS NOTED)
	BOUNDARY LINE
	EASEMENT LINE
	EDGE OF WATER
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	RIGHT-OF-WAY LINE
	ABUTTER LINE
OHU	OVERHEAD UTILITY
N/F	NOW OR FORMERLY OWNED BY
1234/567	DEED BOOK AND PAGE (CCRD)
12-34	TAX MAP-LOT
(123.45')	PARENTHESIS DENOTE RECORD DATA
	TIE COURSE

NOTES

1. THE BASIS OF BEARING FOR THIS SURVEY IS MAINE STATE COORDINATE SYSTEM, MAINE WEST ZONE 2000, GRID NORTH.
2. DEED AND PLAN BOOK REFERENCES ARE TO THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
3. RECORD OWNERSHIP OF THE PARCEL SURVEYED CAN BE FOUND IN THE FOLLOWING DEEDS:
   a. FROM LAWRENCE J. KEDDY TO SCOTT PAPER COMPANY (S.D. WARREN DIVISION) DATED OCTOBER 18, 1974 AND RECORDED IN DEED BOOK 3612, PAGE 25.
   b. FROM MALLISON CORPORATION TO SCOTT PAPER COMPANY (S.D. WARREN DIVISION) DATEDOCTOBER 18, 1974 AND RECORDED IN DEED BOOK 3612, PAGE 30.
4. REFERENCE IS MADE TO THE FOLLOWING PLANS:
   a. "PLAN OF CONVEYANCE OF PROPERTY AND EASEMENTS FROM LAWRENCE J. KEDDY TO SCOTT PAPER COMPANY – S.D. WARREN CO. DIVISION" BY LAWRENCE P. ROLFE, DATED 1974, RECORDED IN PLAN BOOK 102, PAGE 34.
   b. "PLAN OF CONVEYANCE OF PROPERTIES AND EASEMENTS MALLISON CORP. TO SCOTT PAPER CO. – S.D. WARREN CO. DIVISION" BY LAWRENCE P. ROLFE, DATED 1974, RECORDED IN PLAN BOOK 102, PAGE 32.
   c. "RIGHT-OF-WAY AND TRACK MAP OF THE PORTLAND & OGDENSBURY RY. OF THE MAINE CENTRAL RAILROAD COMPANY" BY OFFICE OF CHIEF ENGINEER, PORTLAND, MAINE, DATED JUNE 30, 1916, VOLUME 16, SHEET 4.
   d. "FINAL MAJOR SUBDIVISION PLAN – VILLAGE AT LITTLE FALLS" BY NORTHEAST CIVIL SOLUTIONS, INC., DATED OCTOBER 10, 2007 (REVISION #4), RECORDED IN PLAN BOOK 207, PAGE 654.
   e. "EXISTING CONDITIONS PLAN – MALLISON FALLS BRIDGE" BY NORTHEAST CIVIL SOLUTIONS, INC., DATED NOVEMBER 11, 2011, NOT RECORDED.
   f. "AMENDED SUBDIVISION PLAN – RIVER VIEW SUBDIVISION" BY PINKHAM & GREER, DATED OCTOBER 22, 1998, RECORDED IN PLAN BOOK 199, PAGE 488.
   g. "STATE OF MAINE D.O.T. RIGHT-OF-WAY MAP, STATE HIGHWAY "4", FEDERAL AID PROJECT NO. BH-A017(000)X", DATED AUGUST, 2003, D.O.T. FILE NO. 3-499.
5. THE PARCELS SURVEYED ARE IDENTIFIED ON THE TOWN OF GORHAM TAX ASSESSOR'S MAP 111, PARCEL 91 AND WINDHAM TAX ASSESSOR'S MAP 3, PARCEL 8A AND MAP 38, PARCEL 10.
6. THE WIDTH AND LAYOUT OF MAIN STREET (ROUTE 202) WAS TAKEN FROM THE PLAN REFERENCED IN NOTE 4.c. ABOVE.
7. REFERENCE IS MADE TO THE FOLLOWING EASEMENTS OF RECORD:
   a. A 100' WIDE EASEMENT TO CENTRAL MAINE POWER COMPANY, DATED JULY 25, 1945, RECORDED IN DEED BOOK 1787, PAGE 353.
   b. A RIGHT-OF-WAY ON FOOT AND WITH VEHICLES TO REPAIR AND REBUILD THE EXISTING DAM AND GATES, DATED APRIL 19, 1978, RECORDED IN DEED BOOK 4205, PAGE 155.
   c. A 30' WIDE RIGHT-OF-WAY FOR VEHICLES AND PEDESTRIANS FROM MAIN STREET TO THE MAIN FACTORY BUILDING, DATED OCTOBER 18, 1978, RECORDED IN DEED BOOK 3612, PAGE 25.
   d. ANY OTHER EASEMENTS OF RECORD NOT SHOWN ON THIS PLAN.
8. THIS SURVEY WAS CONDUCTED WITH 6 INCHES OF SNOW ON THE GROUND.
9. RIPARIAN RIGHTS BETWEEN HIGH WATER AND LOW WATER WERE NOT DETERMINED DURING THIS SURVEY.
10. THE UTILITIES SHOWN ON THIS PLAN WERE FROM FIELD OBSERVATION ONLY. THERE MAY BE OTHER UTILITIES EXISTING THAT ARE NOT SHOWN. CONTACT DIG-SAFE (888)DIG-SAFE PRIOR TO ANY EXCAVATION WORK.

NOTES CONTINUED

11. THIS PROPERTY (INCLUDING THE STRIP IN NOTE 12 BELOW) WAS CONVEYED FROM SCOTT PAPER CO. (S.D. WARREN DIVISION) TO JONASSEN BY DEED DATED APRIL 19, 1978 AND RECORDED IN DEED BOOK 4205, PAGE 155. THE CONVEYANCE ONLY INCLUDES PROPERTY LANDWARD OF THE HIGH WATER MARK OF THE PRESUMPSCOT RIVER TO THE BOUNDARY LINES SHOWN HEREON AND DOES NOT INCLUDE ANY PART OF THE DAM, GATES OR ABUTMENTS THAT MAY BE ON THE PHYSICAL PROPERTY.
12. THIS 20'± STRIP FROM THE HIGH WATER MARK OF THE PRESUMPSCOT RIVER TO THE MONUMENTS SHOWN WAS CONVEYED FROM JONASSEN TO LEACH (NOW McCANN) BY DEED DATED APRIL 19, 1995 AND RECORDED IN DEED BOOK 12222, PAGE 136.
13. THE LAND THAT THIS BUILDING AND PARKING AREA IS ON BELONGS TO JONASSEN (TAX MAP 111, PARCEL 91). FOR OWNERSHIP OF THE BUILDING AND ACCESS EASEMENT TO IT, REFER TO DEED BOOK 10174, PAGES 300 & 301.
14. THE TOWN LINE BETWEEN GORHAM AND WINDHAM IS THE CENTERLINE OF THE PRESUMPSCOT RIVER. THE TOWN LINE AS SHOWN ON THIS PLAN WAS DETERMINED BY LOCATING BOTH SIDES AND CALCULATING THE CENTERLINE BASED ON THESE LOCATIONS. TOWN PREAMBULATION RECORDS WERE NOT USED IN THE CALCULATING OF THIS CENTERLINE.

Revision:	By:	Date:	Change:

PROJECT: 33120	DRAWING NAME: 33120.DWG
DATE: FEBRUARY 3, 2012	SCALE: 1"= 100'
FIELDED BY: JAP, MJB, SMA	DRAWN BY: JAP

Drawing Name and Location:
BOUNDARY SURVEY OF PROPERTY N/F OF SAPPI
ROUTE 202 GORHAM / WINDHAM AT PRESUMPSCOT RIVER

Owner:
S.D. WARREN d/b/a SAPPI FINE PAPER
89 CUMBERLAND STREET, WESTBROOK, MAINE 04092

Prepared For:
S.D. WARREN d/b/a SAPPI FINE PAPER
89 CUMBERLAND STREET, WESTBROOK, MAINE 04092

SURVEYING ENGINEERING LAND PLANNING
Northeast Civil Solutions
INCORPORATED
153 US ROUTE 1, SCARBOROUGH, MAINE 04074
tel 207.883.1000 800.882.2227
fax 207.883.1001
e-mail info@northeastcivilsolutions.com

0 100' 200' 400'

STAMP AND SIGNATURE

PRELIMINARY

M. JOHANN BUISMAN
MAINE P.L.S. No. 1314
DATE

IF THIS PLAN DOES NOT CONTAIN AN EMBOSSED SEAL, IT IS NOT AN ORIGINAL AND MAY BE VOID.

EMBOSSED SEAL ABOVE

E:\Land Projects\33000\33120-Sappi-Windham\Dwg\33120.dwg

APPENDIX 9

Qualifications of Project Staff and the Environmental Professional Statement

QUALIFICATIONS OF PROJECT STAFF

ALLISON S. DROUIN (Principal Investigator): Mrs. Allison Drouin is a Project Geologist with TRC and holds a Bachelors of Science degree in Geology and Environmental Studies from St. Lawrence University (2009). She has experience in many field sampling procedures, geotechnical exploration, contractor oversight with environmental monitoring and reporting experience including Phase I and Phase II reporting; as well as regulatory compliance status and completion reporting. She has experience in site inspection including locations such as vacant lots, commercial businesses, auto repair shops, laboratory space, farm land, industrial buildings, power plants and transportation infrastructure.

CHARLES D. SPRINGER, CG, CHMM (Task Manager): Mr. Charlie Springer is currently a Project Manager / Geologist with 12 years of consulting experience. Mr. Springer has managed and/or assisted with hundreds of projects ranging from ASTM Transaction Screens and Phase I Environmental Site Assessments to site characterization, remediation and restoration. Mr. Springer is experienced in site assessments, various field sampling/investigation techniques, contractor oversight, and management/reporting tasks. Mr. Springer has completed projects for a broad range of clients including; developers, municipalities, industrial facilities, energy installations and liner projects, large corporations, the Department of Defense, and the Environmental Protection Agency. Mr. Springer holds a Bachelors of Science degree in Geology from Lafayette College (2000). Mr. Springer has held a Professional Geologist's license since 2005 and a Certified Hazardous Material Manager license since 2010.

DAVID SULLIVAN (Project Manager): Mr. Dave Sullivan is a Senior Project Manager with TRC Environmental Corporation working out of Lowell, Massachusetts and South Portland, Maine. He has more than 26 years of experience in the environmental consulting industry focused on problem solving, site investigation, contaminant remediation and environmental compliance. He has several publications and conference proceedings to his credit concerning the impact of PCBs in building materials on indoor air as well as assessment and remediation processes and strategies. He has a Master's Degree in Environmental Engineering and a Bachelors of Science in Environmental Science and Geology, both from the University of Massachusetts. He is also licensed by the Commonwealth of Massachusetts to perform all phases of hazardous waste site cleanup, including regulatory closure under the state's privatized regulatory program.

LARRY FITZGERALD, CG (Principal-in-Charge): Mr. Larry Fitzgerald manages TRC's Site Assessment and Remediation Practice in Maine. He earned a Bachelor's of Arts in Geology from the University of Rhode Island in 1982 and is a Professional Geologist in several states. Mr. Fitzgerald has over 28 years of experience in assessing and remediating Sites (including brownfields, Superfund/NPL sites, large industrial facilities, energy installations, and others). He has reviewed or authored over 200 Phase I ESAs or Phase II Site Assessments, many on industrial property. He has authored and co-authored various articles on assessment and investigative approaches and methods.

ENVIRONMENTAL PROFESSIONAL STATEMENT

DEFINITION OF ENVIRONMENTAL PROFESSIONAL AND RELEVANT EXPERIENCE THERETO PURSUANT TO 40 CFR 312

(1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f).

(2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time *relevant experience*; or (iii) have a
Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience.

(3) An environmental professional should remain current in his or her field through participation in continuing education or other activities.

(4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b). (5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the subject property.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature of Environmental Professional: ***Date: 9/06/2012***

APPENDIX B

Technical Memorandum, November/December 2012 Field Investigation and Analytical Soil Data, Little Falls Site, Windham, Maine (Jan 16, 2013)

TRC
400 Southborough Drive
South Portland, Maine 04106
207.879.1930

Technical Memorandum

To: Kenneth Gray, Esq. (Pierce Atwood)

From: Larry Fitzgerald, CG (TRC)

CC Briana O'Regan (Sappi)
Tom Howard (Sappi)
Dave Sullivan (TRC)
Charlie Springer (TRC)
TRC Project File

Subject: November/December 2012 Field Investigation and Analytical Soil Data
Little Falls Site, Windham, Maine

Date: January 16, 2013

TRC Environmental Corporation (TRC) is pleased to provide Sappi Fine Paper / S.D. Warren (Sappi) with this Technical Memorandum presenting fall 2012 field investigation activities and a summary of the analytical results for the Little Falls property located off of Main Street and Depot Street in the Town of Windham, Cumberland County, Maine (the Site). For the purposes of this document, the Site consists of both the Hydro and Transmission Line Properties owned by Sappi. Figure 1 depicts the location of the Site.

Prior to commencing investigation actives, TRC had reviewed prior environmental reports, completed a Phase I Environmental Site Assessment (TRC 2012a), and conducted a Site reconnaissance. These activities provided indications that areas of fill material may exist on Sappi's property that originated from the historical waste generation operations of the neighboring Keddy Mill property. TRC understands that Sappi did not engage in activates on the Site that generate this type or quantity of waste-related fill materials since the time of purchase.

OBJECTIVE

The objective of this field investigation was to gather Site specific information regarding the presence of and/or vertical and horizontal extent of fill material attributable to waste disposal on Sappi's property. To support this objective, TRC conducted the following activities in accordance with the Maine Department of Environmental Protection approved Sampling Plan dated September 2012 (TRC, 2012b):

- **Test pits and soil sampling -** TRC installed 14 test pits and collected soil samples to evaluate the extent of waste fill material at the northern portion of the Transmission Line Property and observed subsurface conditions at the Hydro Property.

- **Hand auger borings and soil sampling -** TRC advanced 12 hand auger borings to evaluate surficial and shallow soil conditions at the southern half of the Transmission Line Property.

- **Soil borings (direct push and hand auger) -** TRC installed 19 direct push / hand auger soil borings and collected soil samples to evaluate the extent of waste fill material that were observed at test pit locations.

- **Upland sediment sampling -** TRC collected two sediment samples to assess conditions within the surface water drainage that bisects the Transmission Line Property upland of the Presumpscot River (no sampling was conducted in the Presumpscot River itself).

- **Upland river bank sampling -** TRC collected seven riverbank soil samples along the banks of the Presumpscot River, but above the water level at the Transmission Line Property to correspond to proposed EPA sediment sampling locations within the river as indicated in the *Field Task Work Plan for Soil and Sediment Sampling at the Keddy Mill* (Nobis, 2012).

- **Laboratory analysis -** All soil and sediment samples were submitted for analysis of various parameters discussed herein by Contest Analytical Laboratory of East Longmeadow, Massachusetts.

TECHNICAL APPROACH

TRC conducted the above-summarized field investigation activities between November 6 and December 10, 2012. Field investigation activities were conducted in accordance with TRC's Standard Operating Procedures (SOPs) and the TRC prepared *Sampling Plan*, dated September 2012 (TRC, 2012b).

Test Pits

TRC installed 10 test pits at the Transmission Line Property (T-TP-1 through T-TP-10) and 4 test pits at the Hydro Property (H-TP-1 through H-TP-4) on November 6 and 7, 2012. Test pits were advanced by McGee Construction of Gardiner, Maine using a 320 L Cat excavator under supervision of TRC field staff. Test pits were excavated to depths ranging from 3 to 13-feet at the Transmission Line Property and 4.5 to 14-feet at the Hydro Property.

Soil was removed from each test pit in approximately 1 to 2-foot lifts and temporarily placed on polyethylene sheeting for observation. As each lift was removed, the material was examined using hand tools. TRC evaluated and logged the geologic character of the soil consistent with the Unified Soil Classification System (USCS). TRC documented the character of the soil with

select photographs of the side walls of the test pit and close-ups of specific materials observed. A photographic log is included in Appendix A. Test Pit logs have been included in Appendix B. Test pit locations at the Hydro and Transmission Line properties are shown on Figures 2 through 4.

Following completion, each test pit was backfilled with the stockpiled material, taking care to minimize mixing of horizons (if observed). The disturbed area was stabilized with hay mulch to prevent erosion. Each test pit was located using a hand held global position system (GPS).

Analytical samples from test pits were collected out of the excavator bucket from soil that was not in contact with the bucket. Soil samples were submitted on ice for polychlorinated biphenyls (PCB) Aroclors, Target Analyte List (TAL) metals (including cyanide) and Extractable Petroleum Hydrocarbons (EPH) (including polycyclic aromatic hydrocarbon (PAH) targets) to Contest Analytical Laboratory under chain of custody protocols.

TRC collected three discreet analytical samples from each of five test pits (T-TP-1, T-TP-4, T-TP-5, T-TP-6, T-TP-7) and only two discreet analytical samples from each of the remaining five test pits (T-TP-2, T-TP-3, T-TP-8, T-TP-9, T-TP-10) at the Transmission Line Property. Samples were generally collected from three different intervals: from the surface (0 to 1-foot), from observed waste fill material ranging from 1 to 10-feet (less than or equal to a 2-foot interval), and from the bottom of the test pits where native soil was observed ranging from 2 to 12-feet. At test pit locations T-TP-2 and T-TP-3, waste fill was encountered however, only two analytical soil samples were collected; one from the 0-1 foot sample and then a sample from material that appeared to be native (just above the weathered shale bedrock).

Waster fill was not encountered at test pit locations T-TP-8, T-TP-9 and T-TP-10 and only two analytical samples were collected from each of the three locations: (1) from 0 to 1 feet below grade and (2) from the bottom of the test pit or from the approximate depth at which waste fill is encountered in the nearest adjacent test pit.

TRC collected up to three soil samples from each of four test pits (H-TP-1, H-TP-2, H-TP-3, and H-TP-4) at the Hydro Property. Samples were targeted to assess surficial earthen cover material, an assumed building debris layer and directly above bedrock/refusal.

Direct Push Soil Borings

Based on a review of the test pit analytical data, TRC installed 17 direct push soil borings at the Transmission Line Property (T-GP-1 through T-GP-17) and three direct push soil borings at the Hydro Property (H-GP-1 through H-GP-3) on December 4 and 5, 2012. Direct push soil borings were advanced Geosearch of Fitchburg, Massachusetts using a Geoprobe® 6610 DT track mounted drill rig under supervision of TRC field staff. Borings were advanced to depths ranging from 3 to 12-feet.

Soil samples were obtained from the subsurface using a Macrocore® lined with an acetate sleeve. Sleeves were provided to TRC on polyethylene sheeting to avoid potential cross contamination with surficial soil. TRC evaluated and logged the geologic character of the soil samples

consistent with the USCS. Soil boring logs are included in Appendix B. Soil boring locations at the Hydro and Transmission Line properties are shown on Figures 2 through 4.

Following completion, cuttings from each soil boring were returned to borehole and the surface restored. Each boring location was located using a hand held GPS.

Analytical samples from direct push soil borings were collected out of the acetate sleeve. Soil samples collected from the Site were submitted on ice for laboratory analysis of PCB Aroclors, TAL metals (including cyanide), Synthetic Precipitation Leaching Procedure (SPLP), Toxicity Characteristic Leaching Procedure (TCLP), and EPH (including PAH targets) by Contest Analytical Laboratory under chain of custody protocols.

TRC collected three analytical samples from each of nine soil borings (H-GP-1, G-GP-2, H-GP-3, T-GP-1, T-GP-2, T-GP-3, T-GP-5, T-GP-14 and T-GP-15) and two analytical samples from the remaining eleven soil borings (T-GP-4, T-GP-6 through T-GP-13, T-GP-16 and T-GP-17) at the Hydro and Transmission Line Property. Samples were generally collected from the surface (0 to 1-foot), a 2-foot interval consisting of waste fill between 1 and 6.5-feet and from the bottom of the soil boring within native soil. The waste fill interval sample targeted a similar depth to the test pit soil sample that contained elevated concentrations. Waste fill was not encountered in soil borings T-GP-4, T-GP-6 through T-GP-13, T-GP-16 and T-GP-17 and only two samples were collected: (1) from 0 to 1 feet below grade and (2) from the bottom of the soil boring within native material.

Hand Auger Soil Borings

TRC advanced 10 hand auger borings (T-HA-1 through T-HA-10) on November 8, 2012 from the southeast portion of the Site, south of the surface water drainage, where waste fill material has not been observed. Of these ten locations, two analytical samples were submitted to the lab (T-HA-5 and T-HA-10). Two additional hand auger borings (T-GP-18 and T-GP-19) were advanced on December 10, 2012 to further assess waste fill material in areas inaccessible to the excavator and Geoprobe.

Soil was removed from the surface using a decontaminated stainless steel hand auger. Soil was augered to a depth of approximately 1 to 2-feet, retained in a decontaminated stainless steel bowl for homogenization and collected in the laboratory glassware. Soil samples were submitted on ice for laboratory analysis of PCB Aroclors, TAL metals (including cyanide) and EPH (including PAH targets) by Contest Analytical Laboratory under chain of custody protocols. Hand auger boring locations are shown on Figure 3.

Upland Surface Water Drainage Sampling

TRC collected two sediment grab samples (T-SWD-1 and T-SWD-2) from the upland surface water drainage feature from the Transmission Line Property on November 7, 2012. Sediment was placed directly into laboratory provided glassware and submitted on ice for laboratory analysis of PCB Aroclors, TAL metals (including cyanide) and EPH (including PAH targets) by

Contest Analytical Laboratory under chain of custody protocols. The locations of surface water drainage soil samples are shown on Figure 3.

Upland Riverbank Soil Sampling

TRC collected four riverbank soil grab samples (T-BANK-1, T-BANK-2, T-BANK-3 and T-BANK-4) from the Transmission Line Property on November 7 and 8, 2012. Samples were collected from the upland portion of the bank of the Presumpscot River corresponding to locations where the U.S. Environmental Protection Agency (USEPA) has indicated proposed sediment sampling. Riverbank soil samples were grab samples from the surface at their respective locations, upslope of the river surface. Soil was placed directly into laboratory provided glassware and submitted on ice for laboratory analysis of PCB Aroclors, TAL metals (including cyanide) and EPH (including PAH targets) by Contest Analytical Laboratory under chain of custody protocols. The riverbank soil sample locations are shown on Figures 3 and 4.

SUMMARY OF ANALYTICAL RESULTS

A summary of the laboratory analytical data for soil samples collected is provided in Tables 1 through 7. Copies of complete laboratory data packages are provided in Appendix C, and a Data Usability Assessment conducted by a TRC Quality Assurance/Quality Control Chemist is included as Appendix D.

Applicable Maine Department of Environmental Protection (MEDEP) Guidelines

Laboratory analytical results of soil and sediment samples collected at the Site were compared to the residential scenario of the Maine Remedial Action Guidelines for Soil (*Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances (draft)*) and/or EPA SW-846 Chapter 7, Table 7-1, *Maximum Concentration of Contaminants for Toxicity Characteristic*.

Extractible Petroleum Hydrocarbons

EPH constituents were detected in 52 of 76 discreet samples collected from the Transmission Line Property. The below EPH constituents were detected above the applicable MEDEP guidelines in at least one of the four following samples: T-TP-1 (8-10), T-GP-13 (0-1), and T-BANK-4 (0-0.5).

- C11-C22 Aromatics
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Dibenz(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

EPH constituents were detected in 13 of 20 discreet samples collected from the Hydro Property. The below EPH constituents were detected above the applicable MEDEP guidelines in at least

one of the following four samples: H-TP-1 (4-5), H-GP-1 (1.5-5.5), H-GP-2 (1-6), and H-GP-3 (2.5-3.5).

- C11-C22 Aromatics
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Dibenz(a,h)anthracene
- Indeno(1,2,3-cd)pyrene
- Naphthalene

Polychlorinated Biphenyls

PCBs were detected in 16 of 76 discreet samples collected from the Transmission Line Property. PCB Aroclor 1254 was detected above the applicable MEDEP guidelines in the following four samples: T-GP-5 (0-1), T-GP-6 (0-1), T-GP-7R (0-1) and T-GP-7R (1-2.5).

PCBs were detected in two of 20 discreet samples collected from the Hydro Property. No PCB Aroclors were detected above the applicable MEDEP guidelines.

Target Analyte List Metals

TAL metals were detected in all 76 discreet samples collected from the Transmission Line Property. The TAL metals arsenic, copper and/or lead were detected above the applicable MEDEP guidelines in at least one of the following 25 samples:

T-TP-1 (8-10)	T-TP-5 (8-9)	T-GP-2 (2-6)	T-GP-14 (1.5-5.5)
T-TP-2 (0-1)	T-TP-7 (0-1)	T-GP-4 (0-1)	T-GP-15 (0-1)
T-TP-3 (0-1)	T-TP-7 (2-3)	T-GP-6 (0-1)	T-GP-17 (1-5.5)
T-TP-4 (1-3)	T-TP-7 (5-6)	T-GP-9 (0-1)	T-GP-18R (0-1)
T-TP-4 (4-5)	T-TP-9 (0-1)	T-GP-12 (0-1)	
T-TP-5 (0-1)	T-TP-9 (3-4)	T-GP-13 (0-1)	
T-TP-5 (2.5-3.5)	T-TP-10 (0-1)	T-GP-14 (0-1)	

TAL metals were detected in three of 20 discreet samples collected from the Hydro Property. The below TAL metals were detected above the applicable MEDEP guidelines in at least one of the following four samples: H-TP-1 (4-5), H-TP-2 (0-1), H-TP-3 (0-1), and H-GP-3 (2.5-3.5).

- Arsenic
- Lead

Synthetic Precipitation Leaching Procedure (SPLP) - Lead

One sample (T-GP-17 (1-5.5)) from the Transmission Line Property was analyzed for SPLP lead. Lead was detected at a concentration of 44 parts per million (ppm) which is above the applicable EPA guidelines of 5 ppm.

Toxicity Characteristic Leaching Procedure (TCLP) - Lead

Three samples (T-GP-2 (2-6), T-GP-4 (0-1), T-GP-14 (1.5-5.5)) from the Transmission Line Property were analyzed for TCLP lead. Lead was detected at all these locations, however, at T-GP-14 (1.5-5.5) a concentration of 17 ppm was detected which is above the applicable EPA guidelines of 5 ppm.

Cyanide

Cyanide was detected in 36 of 76 discreet samples collected from the Transmission Line Property. Cyanide was not detected above the applicable MEDEP guidelines.

Cyanide was detected in four of 20 discreet samples collected from the Hydro Property. Cyanide was not detected above the applicable MEDEP guidelines.

Data Usability Assessment

TRC reviewed the data associated with soil and sediment samples collected from November 6 through November 8, 2012 and December 4 through December 10, 2012. In general, data are usable for project decisions based on a review of accuracy, precision, and sensitivity of the data. Although there were select quality control non-conformances, the data are valid as reported and may be used for decision-making purposes with the following cautions and limitations.

- The field duplicate results for EPH in sample T-Bank-4/0-0.5 are significantly higher than the original sample results and in some cases exceed the project action levels. In order to remain conservative, the results from the field duplicate sample should be used at this location.

- The field duplicate results for the detected PAHs in sample T-GP-13/0-1 are significantly higher than the original sample results. In order to remain conservative, the detected PAH results from the field duplicate sample should be used at this location. The original sample results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics are significantly higher than the field duplicate results and in the case of C_{11}-C_{22} aromatics exceed the project action levels. In order to remain conservative, the results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics from the original sample should be used at this location.

- Caution should be used with the antimony result in sample T-GP-14/0-1 due to low recovery in the matrix spike analysis. The result for antimony in sample T-GP-14/0-1 is just slightly below the project action levels and therefore the decision-making process may be affected by the low bias. Caution should be used with this result as the actual result may be higher and above the project action levels.

Details on the data usability assessment are provided in Appendix D.

REFERENCES

Nobis, 2012 *Field Task Work Plan for Soil and Sediment Sampling, Keddy Mill, Windham, Maine*. Prepared for USEPA, Prepared by Nobis Environmental LLC, dated: July 10, 2012.

TRC, 2012a *Phase I Environmental Site Assessment, Little Falls Site, Hydro & Transmission Line Properties*. Prepared for Sappi (S.D. Warren Company), Prepared by TRC Environmental Corporation, dated September 6, 2012.

TRC, 2012b *Sampling Plan, Upland Portion of the Sappi Little Falls Hydro & Transmission Line Properties*. Prepared for Sappi (S.D. Warren Company), Prepared by TRC Environmental Corporation, dated: September 2012.

ATTACHMENTS

Figures

Figure 1	Site Location
Figure 2	Sample Locations Hydro Property
Figure 3	Sample Locations Transmission Line Property
Figure 4	Sample Locations Transmission Line Property (Inset)

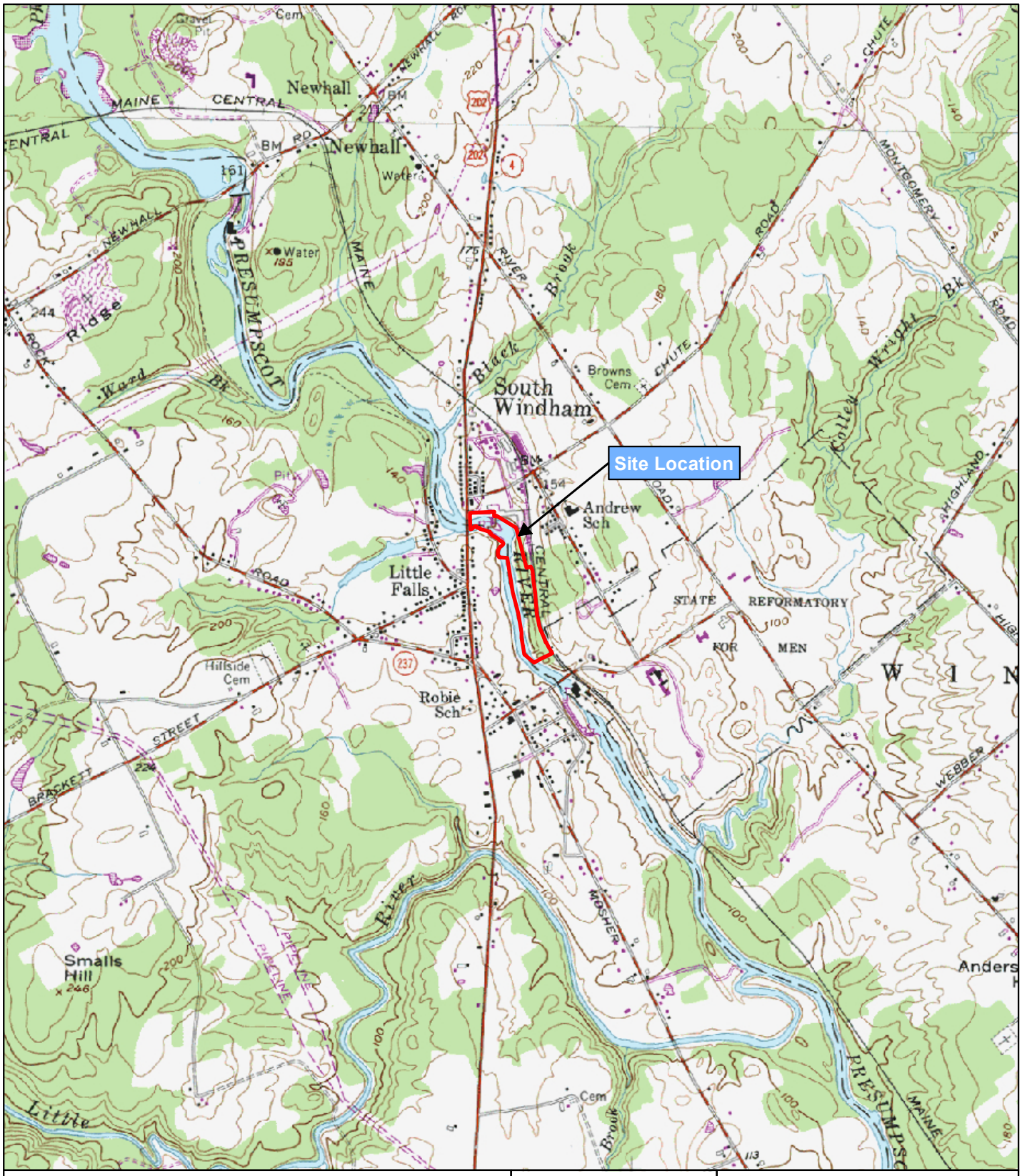
Tables

Table 1	Summary of Analytical Results for Hydro Property Test Pit Soil Samples
Table 2	Summary of Analytical Results for Transmission Line Property Test Pit Soil Samples
Table 3	Summary of Analytical Results for Hydro Property Geoprobe Soil Samples
Table 4	Summary of Analytical Results for Transmission Line Property Geoprobe Soil Samples
Table 5	Summary of Analytical Results for Hand Auger Soil Samples
Table 6	Summary of Analytical Results for Surface Water Drainage Soil Samples
Table 7	Summary of Analytical Results for Riverbank Soil Samples

Appendices

Appendix A	Field Investigation Photograph Log
Appendix B	Test Pit and Soil Boring Logs
Appendix C	Laboratory Analytical Data Packages
Appendix D	Data Usability Assessment

FIGURES



Approximate Site Boundary

N

Gorham and North Windham 7.5-Minute USGS Topographic Quadrangles

0 1,000 2,000 Feet

TRC
400 Southborough Drive
South Portland, ME 04106
207-879-1930

SITE LOCATION

LITTLE FALLS HYDRO AND TRANSMISSION LINE

WINDHAM AND GORHAM, MAINE

FIGURE 1 | DATE: 9/6/2012

R:\Projects\GIS_2012\191981_Keddy_Mill\mxd\Fig1_SiteLocus_2012-08-02.mxd

Geoprobe Boring/Soil Sample Location

Test Pit/Soil Sample Location

Approximate Property Boundary

Presumpscot River Flow Direction

N

0 50 100 Feet

TRC
400 Southborough Drive
South Portland, ME 04106
207-274-2615

SAMPLE LOCATIONS
HYDRO PROPERTY

WINDHAM, MAINE

FIGURE 2 | DATE: 12/20/2012

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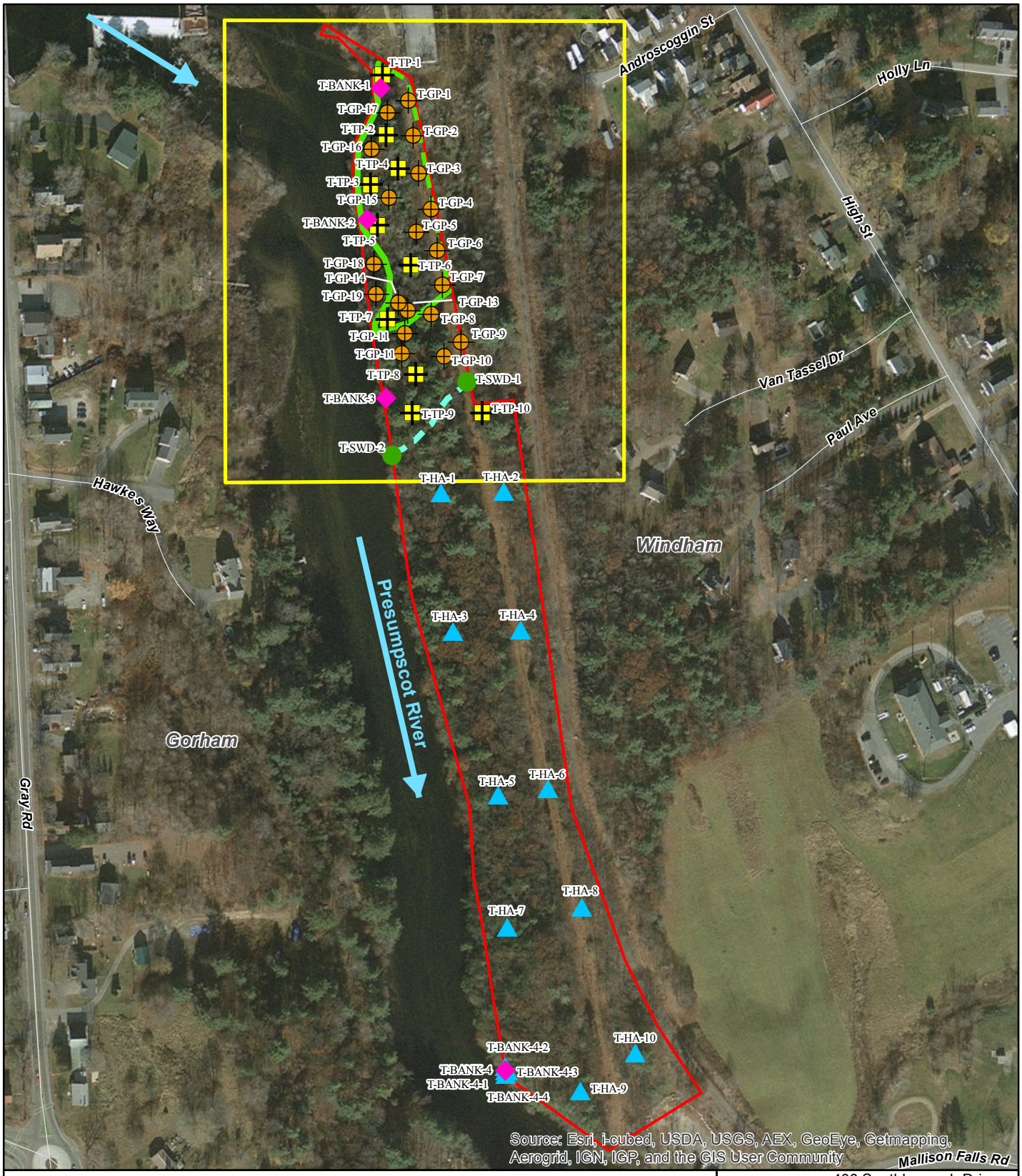

Hand Auger/Soil Sample Location

Surface Water Drainage Sample Location

Riverbank Sample Location

Test Pit/Soil Sample Location

Geoprobe Boring/Soil Sample Location

Presumpscot River Flow Direction

Assumed/Observed Extent of Fill

Surface Water Drainage Feature

Figure 4 Inset

N

0 250 500 Feet

TRC
400 Southborough Drive
South Portland, ME 04106
207-274-2615

SAMPLE LOCATIONS
TRANSMISSION LINE PROPERTY

WINDHAM, MAINE

FIGURE 3 | DATE: 12/20/2012

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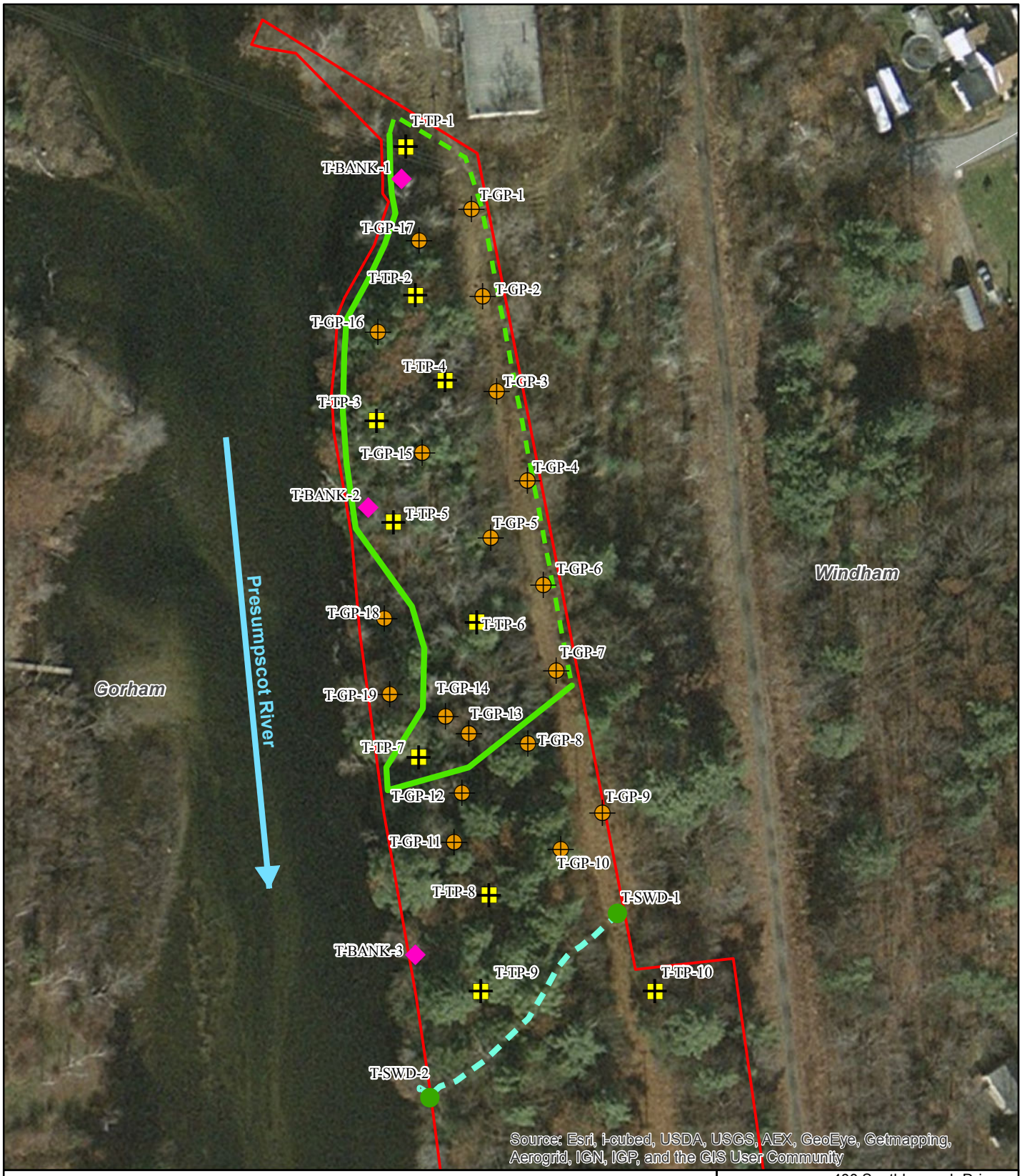

Hand Auger/Soil Sample Location

Surface Water Drainage Sample Location

Riverbank Sample Location

Test Pit/Soil Sample Location

Geoprobe Boring/Soil Sample Location

Assumed/Observed Extent of Fill

Surface Water Drainage Feature

Presumpscot River Flow Direction

N

0 50 100 Feet

TRC
400 Southborough Drive
South Portland, ME 04106
207-274-2615

SAMPLE LOCATIONS
TRANSMISSION LINE PROPERTY

WINDHAM, MAINE

FIGURE 4 | DATE: 12/20/2012

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TABLES

Table 1
Summary of Analytical Results for Hydro Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		H-TP-1			H-TP-2	H-TP-3			H-TP-4			
	Sample Depth (ft.):								0-1	2-3	4-5	0-1	0-1	2-4	4-5	0-1	0-1	5-6	12-14
	Sample Date:								11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
																	Field Dup		
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																			
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	10 U	11 U	26 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	10 U	**28**	**88**	11 U	10 U	10 U	**31**	**27**	**32**	11 U	12 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	10 U	**42**	**250**	**29**	10 U	10 U	**26**	10 U	10 U	11 U	**16**
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.10 U	0.11 U	**0.31**	0.11 U	0.10 U	0.10 U	**0.13**	0.10 U	0.10 U	0.11 U	0.12 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.10 U	**0.16**	**1.4**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.10 U	**0.19**	**0.90**	0.11 U	0.10 U	0.10 U	**0.24**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.10 U	**0.65**	**4.5**	**0.37**	0.10 U	0.10 U	**0.65**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.10 U	**0.88**	**6.2**	**0.41**	0.10 U	0.10 U	**0.72**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.10 U	**1.3**	**9.7**	**0.60**	0.10 U	0.10 U	**0.87**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.10 U	**0.63**	**4.3**	**0.36**	0.10 U	0.10 U	**0.39**	0.10 U	0.10 U	0.11 U	0.12 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.10 U	**0.42**	**3.2**	**0.19**	0.10 U	0.10 U	**0.30**	0.10 U	0.10 U	0.11 U	0.12 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.10 U	**0.99**	**7.9**	**0.46**	0.10 U	0.10 U	**0.70**	0.10 U	0.10 U	0.11 U	0.12 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.10 U	**0.19**	**1.2**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.10 U	**1.7**	**13**	**0.95**	0.10 U	0.10 U	**1.6**	0.10 U	0.10 U	0.11 U	0.12 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.10 U	**0.13**	**0.78**	0.11 U	0.10 U	0.10 U	**0.13**	0.10 U	0.10 U	0.11 U	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.10 U	**0.72**	**5.0**	**0.44**	0.10 U	0.10 U	**0.49**	0.10 U	0.10 U	0.11 U	0.12 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.10 U	0.11 U	**0.27**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.10 U	0.11 U	**0.42**	0.11 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U	0.12 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.10 U	**1.1**	**5.9**	**0.51**	0.10 U	0.10 U	**1.2**	0.10 U	0.10 U	0.11 U	0.12 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.10 U	**1.6**	**12**	**0.89**	0.10 U	0.10 U	**1.4**	0.10 U	0.10 U	0.11 U	0.12 U
PCBs																			
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	**0.17**	**0.18**	0.10 U	0.12 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	0.098 U	0.10 U	0.10 U	0.12 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.098 U	0.11 U	0.12 U	0.11 U	0.098 U	0.097 U	0.11 U	**0.17**	**0.18**	0.10 U	0.12 U

Table 1
Summary of Analytical Results for Hydro Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background												
								Sample ID:	H-TP-1			H-TP-2	H-TP-3			H-TP-4			
								Sample Depth (ft.):	0-1	2-3	4-5	0-1	0-1	2-4	4-5	0-1	0-1	5-6	12-14
								Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
																	Field Dup		
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
Metals, total																			
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**5,400**	**17,000**	**11,000**	**20,000**	**7,100**	**4,600**	**16,000**	**6,100**	**5,400**	**4,900**	**18,000**
	Antimony	N/A	68	110	680	120	1	N/A	2.4 U	2.8 U	**5.7**	2.7 U	2.6 U	2.5 U	2.6 U	2.5 U	2.4 U	2.6 U	3.1 U
	Arsenic	N/A	1	2	4	42	15	N/A	**3.6**	**9.9**	**18**	**15**	**22**	**6.8**	**6.5**	2.5 U	2.4 U	**6.6**	**4.4**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**26**	**140**	**180**	**170**	**39**	**17**	**110**	**27**	**26**	**17**	**120**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.48 U	0.56 U	0.31 U	0.55 U	0.51 U	0.25 U	0.52 U	0.25 U	0.24 U	0.26 U	0.62 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	0.24 U	**0.28**	**0.70**	**0.31**	0.26 U	0.25 U	**0.31**	**0.38**	**0.38**	0.26 U	0.31 U
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,400**	**2,700**	**2,100**	**2,900**	**2,300**	**1,500**	**2,200**	**1,600**	**1,200**	**910**	**2,500**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**11**	**55**	**37**	**67**	**22**	**8.0**	**51**	**83**	**87**	**8.1**	**57**
	Cobalt	N/A	51	85	510	920	15	N/A	**5.1**	**13**	**11**	**16**	**6.1**	**3.1**	**11**	**7.3**	**7.6**	**3.4**	**11**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**9.6**	**36**	**190**	**27**	**17**	**6.4**	**32**	**64**	**71**	**5.9**	**30**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**8,900**	**20,000**	**27,000**	**25,000**	**13,000**	**6,100**	**21,000**	**59,000**	**61,000**	**6,900**	**19,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**8.1**	**94**	**750**	**34**	**23**	**6.1**	**44**	**45**	**46**	**4.9**	**72**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,500**	**8,200**	**4,100**	**11,000**	**3,600**	**1,600**	**7,300**	**2,000**	**2,000**	**1,700**	**7,800**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**170**	**390**	**590**	**440**	**190**	**89**	**310**	**580**	**590**	**110**	**270**
	Mercury	N/A	51	85	510	930	N/A	N/A	0.026 U	**0.072**	**0.20**	0.028 U	0.026 U	0.025 U	**0.064**	0.026 U	0.026 U	0.026 U	**0.13**
	Nickel	N/A	510	850	5,100	930	43	N/A	**9.9**	**38**	**32**	**49**	**18**	**7.2**	**35**	**40**	**46**	**7.0**	**31**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,400**	**6,700**	**2,300**	**10,000**	**2,100**	**950**	**5,300**	**1,100**	**1,200**	**950**	**5,400**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	4.8 U	5.6 U	6.1 U	5.5 U	5.1 U	5.0 U	5.2 U	5.0 U	4.9 U	5.2 U	6.2 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.48 U	0.56 U	0.61 U	0.55 U	0.51 U	0.50 U	0.52 U	0.50 U	0.49 U	0.52 U	0.62 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97 U	**290**	**250**	**290**	**180**	**110**	**200**	**220**	**110**	**260**	**260**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.4 U	2.8 U	3.1 U	2.7 U	2.6 U	2.5 U	2.6 U	2.5 U	2.4 U	2.6 U	3.1 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**15**	**50**	**120**	**62**	**22**	**9.2**	**42**	**24**	**27**	**11**	**44**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**30**	**73**	**270**	**62**	**29**	**15**	**59**	**27**	**27**	**18**	**75**
Cyanide (mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.36 U	0.37 U	**0.94**	0.41 U	0.34 U	0.30 U	**0.48**	0.33 U	0.29 U	**0.58**	0.41 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background														
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**	**T-TP-1**			**T-TP-2**		**T-TP-3**		**T-TP-4**		
	Sample Depth (ft.):								0-1	8-10	12-13	0-1	3-4	0-1	3-5.5	0-1	1-3	4-5
	Sample Date:								11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
EPH																		
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	11 U	68 U	11 U	13 U	12 U	69 U	11 U	12 U	12 U	11 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	11 U	**220**	11 U	13 U	12 U	**640**	**13**	12 U	**15**	11 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	11 U	**280**	11 U	**15**	12 U	**130**	11 U	**31**	**26**	11 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.11 U	**1.7**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.33**	0.12 U	0.11 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.11 U	**5.1**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.0**	0.12 U	0.11 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.11 U	**5.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.96**	0.12 U	0.11 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.11 U	**6.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.3**	0.12 U	0.11 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.11 U	**3.2**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.61**	0.12 U	0.11 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.11 U	**2.3**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.46**	0.12 U	0.11 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.11 U	**5.2**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**1.1**	**0.18**	0.11 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.11 U	**1.0**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.18**	0.12 U	0.11 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	**0.14**	**11**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**2.7**	**0.20**	0.11 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.11 U	**3.8**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**0.75**	0.12 U	0.11 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	**0.14**	0.11 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.11 U	0.68 U	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	0.12 U	0.12 U	0.11 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.11 U	**6.7**	0.11 U	**0.13**	0.12 U	0.69 U	0.11 U	**1.6**	**0.29**	0.11 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	**0.13**	**10**	0.11 U	0.13 U	0.12 U	0.69 U	0.11 U	**2.4**	**0.22**	0.11 U
PCBs																		
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.18**	0.14 U	**0.11**	0.13 U	0.12 U	0.14 U	0.11 U	**0.22**	0.12 U	0.11 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.43 U	0.14 U	0.11 U	0.13 U	0.12 U	0.14 U	0.11 U	0.12 U	0.12 U	0.11 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	**0.18**	0.14 U	**0.11**	0.13 U	0.12 U	0.14 U	0.11 U	**0.22**	0.12 U	0.11 U

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background											
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**										
	Sample ID:								**T-TP-1**			**T-TP-2**		**T-TP-3**		**T-TP-4**		
	Sample Depth (ft.):								0-1	8-10	12-13	0-1	3-4	0-1	3-5.5	0-1	1-3	4-5
	Sample Date:								11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
Metals, total																		
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**13,000**	**9,600**	**15,000**	**16,000**	**26,000**	**3,000**	**30,000**	**28,000**	**12,000**	**29,000**
	Antimony	N/A	68	110	680	120	1	N/A	2.8 U	3.4 U	2.8 U	**25**	3.1 U	**8.4**	2.7 U	3.0 U	3.0 U	2.8 U
	Arsenic	N/A	1	2	4	42	15	N/A	2.8 U	**36**	**3.5**	**12**	**6.7**	**17**	**2.7**	3.0 U	**7.6**	**26**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**110**	**170**	**120**	**130**	**160**	**320**	**210**	**300**	**300**	**190**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.55 U	0.34 U	0.55 U	0.32 U	0.61 U	0.33 U	1.4 U	1.5 U	0.30 U	0.55 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.45**	**3.5**	**0.40**	**0.81**	**0.98**	**2.3**	**0.64**	**0.75**	**0.94**	**0.64**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,900**	**22,000**	**4,700**	**2,400**	**1,900**	**3,300**	**1,900**	**5,300**	**3,000**	**2,300**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**61**	**110**	**48**	**54**	**100**	**45**	**97**	**100**	**44**	**85**
	Cobalt	N/A	51	85	510	920	15	N/A	**11**	**11**	**11**	**13**	**15**	**5.1**	**19**	**16**	**12**	**17**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**40**	**89**	**22**	**260**	**65**	**330**	**70**	**78**	**100**	**40**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**44,000**	**55,000**	**19,000**	**31,000**	**32,000**	**21,000**	**27,000**	**29,000**	**29,000**	**27,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**22**	**200**	**23**	**1,000**	**69**	**990**	**53**	**280**	**480**	**46**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6,600**	**3,600**	**7,400**	**6,400**	**9,200**	**530**	**14,000**	**13,000**	**4,300**	**13,000**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**560**	**420**	**330**	**370**	**350**	**140**	**380**	**430**	**330**	**310**
	Mercury	N/A	51	85	510	930	N/A	N/A	0.028 U	**2.6**	0.028 U	**0.41**	**0.42**	**8.7**	**0.43**	**0.40**	**0.93**	**0.12**
	Nickel	N/A	510	850	5,100	930	43	N/A	**35**	**21**	**28**	**39**	**43**	**12**	**55**	**43**	**33**	**50**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6,200**	**2,700**	**6,400**	**3,100**	**3,600**	**350**	**11,000**	**9,300**	**2,600**	**9,100**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	5.5 U	6.7 U	5.5 U	6.4 U	6.1 U	6.7 U	5.4 U	6.1 U	6.1 U	5.5 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.55 U	0.67 U	0.55 U	0.64 U	0.61 U	**2.0**	0.54 U	0.61 U	0.61 U	0.55 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	110 U	**170**	**160**	**150**	120 U	130 U	**210**	**310**	120 U	**190**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8 U	3.4 U	2.8 U	3.2 U	3.1 U	3.3 U	2.7 U	3.0 U	3.0 U	2.8 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**48**	**29**	**45**	**59**	**72**	**24**	**77**	**89**	**44**	**73**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**51**	**540**	**60**	**170**	**290**	**630**	**160**	**190**	**300**	**82**
Cyanide																		
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.43 U	**2.8**	0.35 U	0.58 U	**0.54**	**5.6**	**1.5**	**1.7**	**3.4**	**0.50**

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		T-TP-5				T-TP-6			T-TP-7		
								Sample ID:	T-TP-5				T-TP-6			T-TP-7		
								Sample Depth (ft.):	0-1	0-1	2.5-3.5	8-9	0-1	1-2	3.5-5	0-1	2-3	5-6
								Sample Date:	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
										Field Dup								
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**										
EPH																		
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	13 U	**46**	12 U	11 U	12 U	12 U	11 U	16 U	19 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**65**	**590**	12 U	11 U	12 U	12 U	11 U	**150**	**91**	**23**
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**39**	**300**	12 U	11 U	12 U	**25**	11 U	**76**	**52**	**17**
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.36**	0.19 U	**0.22**
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.33**	0.19 U	**0.31**
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.50**	0.19 U	**0.30**
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.25**	0.19 U	**0.16**
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.18**	0.19 U	0.12 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.46**	0.19 U	**0.23**
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.86**	0.19 U	**0.43**
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.32**	0.19 U	**0.13**
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.12 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	**0.15**	0.26 U	0.12 U	0.11 U	0.12 U	**0.19**	0.11 U	**0.53**	0.19 U	0.12 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.13 U	0.26 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**0.89**	0.19 U	**0.50**
PCBs																		
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**1.6**	0.19 U	0.11 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.16 U	0.19 U	0.11 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	**1.6**	0.19 U	0.11 U

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background														
									Sample ID:	T-TP-5				T-TP-6			T-TP-7		
									Sample Depth (ft.):	0-1	0-1	2.5-3.5	8-9	0-1	1-2	3.5-5	0-1	2-3	5-6
									Sample Date:	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
											Field Dup								
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
Metals, total																			
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A		**3,000**	**4,200**	**24,000**	**15,000**	**26,000**	**7,600**	**31,000**	**3,900**	**3,700**	**26,000**
	Antimony	N/A	68	110	680	120	1	N/A		**4.9**	**27**	3.0 U	2.7 U	3.0 U	3.1 U	2.8 U	**37**	4.8 U	2.9 U
	Arsenic	N/A	1	2	4	42	15	N/A		**6.2**	**17**	**24**	**57**	**6.7**	**12**	2.8 U	**7.7**	**9.8**	**26**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A		**290**	**410**	**170**	**100**	**200**	**250**	**220**	**750**	**670**	**160**
	Beryllium	N/A	340	570	3,400	620	3	N/A		**0.41**	**0.43**	0.60 U	0.27 U	0.61 U	**0.57**	1.4 U	0.37 U	0.48 U	0.58 U
	Cadmium	N/A	11	18	94	19	0.4	N/A		**3.9**	**3.2**	**3.3**	**0.74**	**0.55**	**0.46**	**0.59**	**2.2**	**5.1**	**1.4**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**2,700**	**3,200**	**1,600**	**1,200**	**1,900**	**7,900**	**2,000**	**1,800**	**2,000**	**1,300**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A		**44**	**62**	**67**	**42**	**88**	**20**	**130**	**88**	**77**	**86**
	Cobalt	N/A	51	85	510	920	15	N/A		**5.5**	**5.7**	**12**	**12**	**16**	**8.0**	**18**	**5.3**	**10**	**15**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A		**250**	**420**	**97**	**22**	**47**	**73**	**63**	**1,700**	**1,700**	**180**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A		**9,500**	**15,000**	**22,000**	**15,000**	**27,000**	**8,800**	**33,000**	**31,000**	**73,000**	**56,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A		**590**	**1,300**	**25**	**5.7**	**78**	**130**	**46**	**2,800**	**5,000**	**580**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**540**	**660**	**6,400**	**6,100**	**12,000**	**1,700**	**15,000**	**1,100**	**470**	**9,700**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A		**120**	**140**	**460**	**280**	**420**	**86**	**400**	**430**	**860**	**390**
	Mercury	N/A	51	85	510	930	N/A	N/A		**0.67**	**1.5**	**0.15**	0.028 U	**0.19**	**0.26**	**0.54**	**6.2**	**6.4**	**0.33**
	Nickel	N/A	510	850	5,100	930	43	N/A		**9.8**	**13**	**51**	**41**	**42**	**15**	**57**	**11**	**24**	**43**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**190**	**250**	**1,500**	**3,800**	**8,800**	**910**	**9,700**	**330**	**200**	**4,300**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A		6.1 U	6.7 U	6.0 U	5.5 U	6.1 U	6.1 U	5.6 U	7.5 U	9.6 U	5.8 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A		0.61 U	0.67 U	0.60 U	0.55 U	0.61 U	0.61 U	0.56 U	**2.3**	**2.9**	0.58 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		120 U	**160**	120 U	**110**	**160**	**250**	110 U	150 U	190 U	120 U
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		3.1 U	3.4 U	3.0 U	2.7 U	3.0 U	3.1 U	2.8 U	3.7 U	4.8 U	2.9 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A		**13**	**16**	**49**	**31**	**69**	**19**	**84**	**17**	**59**	**65**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A		**560**	**540**	**1,300**	**30**	**110**	**55**	**180**	**590**	**1,500**	**460**
Cyanide																			
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A		**7.6**	**8.6**	**0.49**	0.35 U	0.62 U	**0.57**	0.39 U	**9.8**	**7.5**	**4.1**

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte														
								Sample ID:	**T-TP-8**		**T-TP-9**		**T-TP-10**		
								Sample Depth (ft.):	0-1	3-4	0-1	3-4	0-1	0-1	2-3
								Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
		Scenarios and Exposure Pathways*					Maine Background							Field Dup	
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**							
EPH															
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	12 U	11 U	12 U	11 U	15 U	30 U	13 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	12 U	11 U	12 U	11 U	**30**	**38**	13 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	12 U	11 U	**20**	11 U	**39**	**61**	13 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.12 U	0.11 U	0.12 U	0.11 U	**0.23**	**0.37**	0.13 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.30 U	0.13 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.12 U	0.11 U	0.12 U	0.11 U	**0.21**	**0.36**	0.13 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.12 U	0.11 U	0.12 U	0.11 U	**0.18**	0.30 U	0.13 U
PCBs															
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.12 U	0.11 U	0.12 U	0.11 U	0.15 U	0.15 U	0.13 U

Table 2
Summary of Analytical Results for Transmission Line Parcel Test Pit Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		T-TP-8		T-TP-9		T-TP-10		
								Sample ID:	T-TP-8		T-TP-9		T-TP-10		
								Sample Depth (ft.):	0-1	3-4	0-1	3-4	0-1	0-1	2-3
								Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
														Field Dup	
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**							
Metals, total															
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**30,000**	**27,000**	**14,000**	**17,000**	**15,000**	**12,000**	**26,000**
	Antimony	N/A	68	110	680	120	1	N/A	3.0 U	2.6 U	3.0 U	2.5 U	3.6 U	3.5 U	3.3 U
	Arsenic	N/A	1	2	4	42	15	N/A	3.0 U	2.6 U	**24**	**42**	**14**	**16**	**4.8**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**120**	**220**	**45**	**53**	**39**	**28**	**160**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.60 U	1.3 U	0.30 U	0.25 U	0.71 U	0.71 U	0.65 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.40**	**0.31**	**0.50**	**0.56**	**0.48**	0.35 U	**0.38**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**790**	**1,200**	**350**	**600**	**310**	**220**	**1,500**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**100**	**180**	**31**	**42**	**100**	**98**	**240**
	Cobalt	N/A	51	85	510	920	15	N/A	**14**	**17**	**6.7**	**11**	**9.1**	**7.8**	**16**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**11**	**16**	**9.9**	**25**	**10**	**9.8**	**15**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**27,000**	**28,000**	**17,000**	**15,000**	**24,000**	**23,000**	**28,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**7.6**	**3.7**	**28**	**3.2**	**57**	**86**	**4.1**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**9,900**	**15,000**	**2,400**	**6,300**	**5,900**	**4,800**	**13,000**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**170**	**200**	**74**	**130**	**100**	**85**	**280**
	Mercury	N/A	51	85	510	930	N/A	N/A	**0.043**	0.027 U	**0.065**	0.026 U	**0.068**	**0.078**	**0.033**
	Nickel	N/A	510	850	5,100	930	43	N/A	**40**	**57**	**19**	**38**	**24**	**23**	**47**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,700**	**7,700**	**390**	**2,500**	**940**	**540**	**5,200**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	6.0 U	5.3 U	6.1 U	5.0 U	7.1 U	7.1 U	6.5 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.60 U	0.53 U	0.61 U	0.50 U	0.71 U	0.71 U	0.65 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120 U	110 U	120 U	100 U	140 U	140 U	130 U
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0 U	2.6 U	3.0 U	2.5 U	3.6 U	3.5 U	3.3 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**69**	**69**	**43**	**31**	**95**	**120**	**69**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**64**	**52**	**39**	**24**	**41**	**31**	**46**
Cyanide (mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	**1.8**	0.45 U	0.42 U	**0.67**	0.73 U	0.66 U	0.35 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 3
Summary of Analytical Results for Hydro Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		H-GP-1			H-GP-2			H-GP-3		
								Sample Depth (ft.):	0-1	1.5-5.5	10-11	0-1	1-6	6.5-7.5	0-1	2.5-3.5	5-7
								Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
EPH																	
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	11 U	28 U	12 U	10 U	11 U	12 U	11 U	61 U	12 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	11 U	**92**	12 U	10 U	**40**	12 U	**23**	**330**	12 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**16**	**200**	12 U	**20**	**86**	12 U	**24**	**620**	12 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.11 U	0.28 U	0.12 U	0.10 U	**0.21**	0.12 U	0.11 U	**7.4**	0.12 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.11 U	**0.80**	0.12 U	0.10 U	**0.47**	0.12 U	0.11 U	**1.3**	0.12 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.11 U	**0.74**	0.12 U	0.10 U	**0.42**	0.12 U	0.11 U	**11**	0.12 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.11 U	**2.7**	0.12 U	0.10 U	**1.3**	0.12 U	0.11 U	**13**	0.12 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.11 U	**3.8**	0.12 U	0.10 U	**1.8**	0.12 U	0.11 U	**12**	0.12 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.11 U	**5.5**	0.12 U	0.10 U	**2.9**	0.12 U	0.11 U	**18**	0.12 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.11 U	**2.8**	0.12 U	0.10 U	**1.4**	0.12 U	0.11 U	**7.0**	0.12 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.11 U	**2.1**	0.12 U	0.10 U	**0.95**	0.12 U	0.11 U	**6.5**	0.12 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.11 U	**4.3**	0.12 U	0.10 U	**2.1**	0.12 U	0.11 U	**17**	0.12 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.11 U	**0.90**	0.12 U	0.10 U	**0.48**	0.12 U	0.11 U	**2.6**	0.12 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.11 U	**7.4**	0.12 U	0.10 U	**3.5**	0.12 U	**0.16**	**41**	0.12 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.11 U	**0.43**	0.12 U	0.10 U	**0.25**	0.12 U	0.11 U	**8.7**	0.12 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.11 U	**3.2**	0.12 U	0.10 U	**1.7**	0.12 U	**0.12**	**9.0**	0.12 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.11 U	0.28 U	0.12 U	0.10 U	0.11 U	0.12 U	0.11 U	**3.6**	0.12 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.11 U	**0.34**	0.12 U	0.10 U	**0.14**	0.12 U	0.11 U	**7.0**	0.12 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.11 U	**3.7**	0.12 U	0.10 U	**1.9**	0.12 U	**0.11**	**48**	0.12 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.11 U	**7.4**	0.12 U	0.10 U	**3.5**	0.12 U	0.11 U	**37**	0.12 U
PCBs																	
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.11 U	0.14 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U

Table 3
Summary of Analytical Results for Hydro Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		H-GP-1			H-GP-2			H-GP-3		
								Sample Depth (ft.):	0-1	1.5-5.5	10-11	0-1	1-6	6.5-7.5	0-1	2.5-3.5	5-7
								Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
Metals, total																	
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**6,000**	**9,900**	**11,000**	**5,300**	**13,000**	**15,000**	**14,000**	**15,000**	**19,000**
	Antimony	N/A	68	110	680	120	1	N/A	2.8 U	3.3 U	2.9 U	2.6 U	2.7 U	3.0 U	2.7 U	3.0 U	3.0 U
	Arsenic	N/A	1	2	4	42	15	N/A	2.8 U	**5.8**	**4.7**	2.6 U	**6.4**	**4.7**	2.7 U	**5.4**	3.0 U
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**29**	**150**	**46**	**23**	**150**	**66**	**90**	**130**	**62**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.28 U	0.33 U	0.29 U	0.26 U	1.4 U	0.30 U	1.4 U	1.5 U	0.30 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	0.28 U	**0.70**	0.29 U	0.26 U	**0.54**	0.30 U	0.27 U	**0.48**	0.30 U
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,600**	**3,700**	**810**	**2,100**	**2,100**	**1,100**	**5,400**	**1,800**	**1,000**
	Chromium	N/A	510	850	5,100	2,800	N/A	N/A	**13**	**25**	**21**	**9.7**	**44**	**26**	**42**	**46**	**35**
	Cobalt	N/A	51	85	510	920	15	N/A	**5.1**	**8.3**	**6.1**	**4.3**	**11**	**7.6**	**11**	**9.8**	**10**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**7.5**	**99**	**1.7**	**7.3**	**82**	**3.3**	**16**	**46**	**6.7**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**9,800**	**16,000**	**12,000**	**8,900**	**19,000**	**14,000**	**21,000**	**20,000**	**18,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**4.6**	**300**	**4.1**	**5.9**	**210**	**7.3**	**12**	**180**	**6.5**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,100**	**3,300**	**2,700**	**2,500**	**7,100**	**3,400**	**8,800**	**7,000**	**5,500**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**150**	**280**	**280**	**140**	**300**	**230**	**250**	**290**	**260**
	Mercury	N/A	51	85	510	930	N/A	N/A	0.027 U	**0.13**	0.029 U	0.026 U	**0.094**	0.031 U	0.027 U	**0.42**	0.029 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**12**	**21**	**11**	**8.0**	**29**	**12**	**31**	**26**	**17**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,700**	**2,100**	**1,300**	**1,500**	**5,600**	**1,500**	**7,900**	**4,900**	**2,600**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	5.5 U	6.7 U	5.8 U	5.2 U	5.4 U	6.0 U	5.5 U	6.1 U	5.9 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.55 U	0.67 U	0.58 U	0.52 U	0.54 U	0.60 U	0.55 U	0.61 U	0.59 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	110 U	**180**	**160**	**110**	**220**	**280**	**210**	**160**	**210**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8 U	3.3 U	2.9 U	2.6 U	2.7 U	3.0 U	2.7 U	3.0 U	3.0 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**17**	**47**	**23**	**14**	**46**	**31**	**41**	**46**	**41**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**32**	**200**	**39**	**31**	**130**	**35**	**49**	**130**	**48**
Cyanide (mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.49 U	**1.1**	0.40 U	0.46 U	0.50 U	0.54 U	0.40 U	0.43 U	0.32 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte																		
								Sample Location:	T-GP-1		T-GP-2		T-GP-3			T-GP-4	T-GP-5		
								Sample ID:	T-GP-1	T-GP-1	T-GP-2	T-GP-2	T-GP-3	T-GP-3	T-GP-3	T-GP-4	T-GP-5	T-GP-5R	T-GP-5
								Sample Depth (ft.):	0-1	4-6.5	0-1	2-6	0-1	1-1.5	5-7	0-1	0-1	1-1.5	6-8
								Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/10/2012	12/4/2012
		Scenarios and Exposure Pathways*					Maine Background												
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																			
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	12 U	13 U	14 U	37 U	12 U	12 U	11 U	14 U	13 U	**14**	10 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**21**	13 U	**99**	**94**	12 U	12 U	11 U	**73**	**54**	**55**	10 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**26**	**21**	**97**	**72**	**17**	**17**	11 U	**48**	**33**	**51**	10 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.17**	0.10 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.12 U	0.13 U	**0.21**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	0.12 U	0.10 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.12 U	0.13 U	**0.31**	0.37 U	0.12 U	**0.13**	0.11 U	0.14 U	0.13 U	**0.37**	0.10 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.12 U	0.13 U	**1.5**	**0.93**	0.12 U	**0.20**	0.11 U	**0.19**	**0.27**	**0.86**	0.10 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.12 U	0.13 U	**1.9**	**1.4**	0.12 U	**0.28**	0.11 U	0.14 U	0.13 U	**1.1**	0.10 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.12 U	0.13 U	**2.5**	**1.5**	0.12 U	**0.28**	0.11 U	**0.29**	**0.37**	**1.2**	0.10 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	**0.12**	0.13 U	**1.1**	**0.89**	0.12 U	**0.12**	0.11 U	**0.15**	**0.23**	**0.51**	0.10 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.12 U	0.13 U	**0.94**	**0.52**	0.12 U	0.12 U	0.11 U	0.14 U	**0.14**	**0.42**	0.10 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	**0.14**	0.13 U	**1.8**	**1.1**	0.12 U	**0.26**	0.11 U	**0.25**	**0.31**	**0.97**	0.10 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.12 U	0.13 U	**0.32**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.16**	0.10 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	**0.17**	0.13 U	**2.3**	**1.7**	**0.14**	**0.50**	0.11 U	**0.38**	**0.57**	**1.8**	0.10 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.23**	0.10 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.12 U	0.13 U	**1.3**	**0.92**	0.12 U	**0.14**	0.11 U	0.14 U	**0.20**	**0.62**	0.10 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.12 U	0.13 U	0.14 U	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.16**	0.10 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.12 U	0.13 U	**0.24**	0.37 U	0.12 U	0.12 U	0.11 U	0.14 U	0.13 U	**0.19**	0.10 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	**0.12**	0.13 U	**0.93**	**1.2**	0.12 U	**0.60**	0.11 U	**0.41**	**0.48**	**1.5**	0.10 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	**0.18**	0.13 U	**2.7**	**1.7**	0.12 U	**0.44**	0.11 U	**0.35**	**0.53**	**1.8**	0.10 U
PCBs																			
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.14**	0.13 U	**0.36**	0.19 U	**0.17**	0.12 U	0.11 U	**0.20**	**2.7**	**0.53**	0.10 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.14 U	0.19 U	0.12 U	0.12 U	0.11 U	0.14 U	0.65 U	0.12 U	0.10 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	**0.14**	0.13 U	**0.36**	0.19 U	**0.17**	0.12 U	0.11 U	**0.20**	**2.7**	**0.53**	0.10 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background												
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
								Sample Location:	T-GP-1		T-GP-2		T-GP-3			T-GP-4	T-GP-5		
								Sample ID:	T-GP-1	T-GP-1	T-GP-2	T-GP-2	T-GP-3	T-GP-3	T-GP-3	T-GP-4	T-GP-5	T-GP-5R	T-GP-5
								Sample Depth (ft.):	0-1	4-6.5	0-1	2-6	0-1	1-1.5	5-7	0-1	0-1	1-1.5	6-8
								Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/10/2012	12/4/2012
Metals, total																			
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**7,700**	**15,000**	**7,900**	**8,500**	**15,000**	**11,000**	**35,000**	**15,000**	**16,000**	**16,000**	**24,000**
	Antimony	N/A	68	110	680	120	1	N/A	2.8 U	**5.4**	3.4 U	**14**	3.1 U	2.9 U	2.7 U	3.4 U	3.2 U	3.1 U	2.6 U
	Arsenic	N/A	1	2	4	42	15	N/A	2.8 U	**7.1**	3.4 U	**9.7**	**7.3**	2.9 U	2.7 U	**4.5**	3.2 U	**8.3**	2.6 U
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**84**	**160**	**130**	**280**	**150**	**150**	**300**	**740**	**230**	**150**	**320**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.28 U	0.31 U	0.34 U	0.46 U	0.31 U	0.29 U	1.3 U	0.34 U	1.6 U	0.31 U	1.3 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.43**	0.31 U	**1.1**	**1.1**	**0.39**	0.29 U	**0.36**	**1.6**	**1.1**	**1.2**	**0.32**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,800**	**45,000**	**5,800**	**13,000**	**2,600**	**7,100**	**4,100**	**21,000**	**3,700**	**3,800**	**2,000**
	Chromium	N/A	510	850	5,100	2,800	N/A	N/A	**170**	**29**	**220**	**48**	**39**	**35**	**120**	**54**	**78**	**63**	**150**
	Cobalt	N/A	51	85	510	920	15	N/A	**12**	**9.0**	**12**	**8.9**	**9.7**	**9.1**	**22**	**9.4**	**13**	**14**	**18**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**72**	**15**	**200**	**510**	**37**	**21**	**17**	**120**	**140**	**320**	**9.5**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**66,000**	**16,000**	**110,000**	**43,000**	**18,000**	**14,000**	**41,000**	**21,000**	**33,000**	**36,000**	**29,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**50**	**48**	**330**	**1,500**	**160**	**32**	**3.2**	**770**	**190**	**160**	**2.0**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,000**	**5,200**	**3,500**	**3,600**	**4,800**	**5,500**	**22,000**	**11,000**	**7,800**	**6,900**	**17,000**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**710**	**280**	**820**	**480**	**490**	**240**	**630**	**680**	**580**	**430**	**530**
	Mercury	N/A	51	85	510	930	N/A	N/A	**0.13**	**0.074**	**0.75**	**2.9**	**0.85**	**0.61**	0.027 U	**30**	**0.34**	**0.23**	0.026 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**84**	**18**	**75**	**23**	**27**	**31**	**66**	**24**	**54**	**42**	**61**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,500**	**3,300**	**1,700**	**2,000**	**2,200**	**3,900**	**16,000**	**2,100**	**5,100**	**4,600**	**16,000**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	11 U	6.3 U	14 U	9.3 U	6.2 U	5.8 U	5.4 U	6.8 U	6.3 U	6.2 U	5.2 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.57 U	0.63 U	0.68 U	0.93 U	0.62 U	0.58 U	0.54 U	0.68 U	0.63 U	0.62 U	0.52 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**150**	**150**	140 U	190 U	120 U	**130**	**600**	140 U	**180**	**150**	**170**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.7 U	3.1 U	6.8 U	4.6 U	3.1 U	2.9 U	2.7 U	3.4 U	3.2 U	3.1 U	2.6 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**56**	**33**	**47**	**27**	**38**	**34**	**100**	**48**	**52**	**49**	**82**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**66**	**33**	**270**	**480**	**98**	**45**	**76**	**540**	**220**	**160**	**56**
Metals, SPLP																			
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	**0.11**	NA	NA	NA	**0.60**	NA	NA	NA
Cyanide																			
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.33 U	0.43 U	0.62 U	**2.1**	0.62 U	0.59 U	0.54 U	**1.6**	0.55 U	**0.99**	0.43 U

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		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
								Sample Location:	T-GP-6	T-GP-7		T-GP-8	T-GP-9	T-GP-10	T-GP-11	T-GP-12	T-GP-13		
								Sample ID:	T-GP-6	T-GP-7R	T-GP-7R	T-GP-8R	T-GP-9	T-GP-10R	T-GP-11	T-GP-12	T-GP-13	Dup-1	T-GP-13
								Sample Depth (ft.):	0-1	0-1	1-2.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1	1-3
								Sample Date:	12/4/2012	12/10/2012	12/10/2012	12/10/2012	12/4/2012	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
																		Field Dup	
EPH																			
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	13 U	16 U	12 U	12 U	30 U	13 U	14 U	11 U	14 U	15 U	10 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**23**	**31**	**180**	12 U	30 U	13 U	14 U	11 U	**1,400**	**100**	10 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**20**	**29**	**92**	12 U	**36**	**22**	**44**	**20**	**520**	**84**	10 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.13**	0.14 U	**0.15**	0.10 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.17**	0.14 U	**0.26**	0.10 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.18**	0.14 U	**0.59**	0.10 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.22**	0.14 U	**0.72**	0.10 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.19**	0.14 U	**0.59**	0.10 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	**0.24**	0.10 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.19**	0.14 U	**0.83**	0.10 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.13 U	**0.20**	**0.23**	0.12 U	0.30 U	0.13 U	0.14 U	**0.54**	**0.47**	**1.2**	0.10 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.15**	0.14 U	**0.24**	0.10 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	**0.32**	0.10 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.13 U	0.16 U	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.17**	0.14 U	0.15 U	0.10 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.13 U	**0.16**	0.12 U	0.12 U	0.30 U	0.13 U	0.14 U	**0.74**	**0.19**	**1.3**	0.10 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.13 U	**0.21**	**0.18**	0.12 U	0.30 U	0.13 U	0.14 U	**0.55**	**0.41**	**1.6**	0.10 U
PCBs																			
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4.6**	**3.5**	**8.4**	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.61 U	1.2 U	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	**4.6**	**3.5**	**8.4**	0.12 U	0.14 U	0.13 U	0.14 U	0.11 U	0.14 U	0.15 U	0.10 U

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		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**												
								Sample Location:	T-GP-6	T-GP-7		T-GP-8	T-GP-9	T-GP-10	T-GP-11	T-GP-12	T-GP-13		
								Sample ID:	T-GP-6	T-GP-7R	T-GP-7R	T-GP-8R	T-GP-9	T-GP-10R	T-GP-11	T-GP-12	T-GP-13	Dup-1	T-GP-13
								Sample Depth (ft.):	0-1	0-1	1-2.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1	1-3
								Sample Date:	12/4/2012	12/10/2012	12/10/2012	12/10/2012	12/4/2012	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012 Field Dup	12/5/2012
Metals, total																			
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**20,000**	**18,000**	**16,000**	**27,000**	**22,000**	**20,000**	**18,000**	**25,000**	**9,600**	**11,000**	**22,000**
	Antimony	N/A	68	110	680	120	1	N/A	3.2 U	3.8 U	2.9 U	2.9 U	3.5 U	3.3 U	3.6 U	2.9 U	**4.8**	3.5 U	2.6 U
	Arsenic	N/A	1	2	4	42	15	N/A	**18**	**11**	**7.1**	2.9 U	**21**	**7.8**	3.6 U	**24**	3.3 U	**4.0**	**9.6**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**120**	**150**	**160**	**250**	**95**	**67**	**64**	**210**	**310**	**360**	**260**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.32 U	0.38 U	0.29 U	1.4 U	1.7 U	0.33 U	1.8 U	2.9 U	0.33 U	0.35 U	1.3 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.44**	**0.85**	**1.1**	**0.40**	0.35 U	**0.39**	**0.36**	**1.2**	**1.3**	**1.4**	**0.34**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,400**	**2,400**	**2,300**	**2,000**	**1,500**	**430**	**870**	**2,200**	**2,500**	**2,600**	**1,600**
	Chromium	N/A	510	850	5,100	2,800	N/A	N/A	**51**	**56**	**69**	**100**	**78**	**43**	**42**	**98**	**50**	**62**	**120**
	Cobalt	N/A	51	85	510	920	15	N/A	**11**	**21**	**13**	**20**	**11**	**9.1**	**6.8**	**15**	**7.5**	**9.1**	**18**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**42**	**66**	**94**	**14**	**18**	**9.5**	**7.8**	**56**	**260**	**360**	**12**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**20,000**	**41,000**	**67,000**	**30,000**	**21,000**	**18,000**	**21,000**	**55,000**	**31,000**	**24,000**	**25,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**99**	**89**	**130**	**9.5**	**30**	**17**	**51**	**140**	**560**	**710**	**2.6**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5,900**	**5,900**	**6,100**	**15,000**	**7,900**	**4,500**	**3,600**	**11,000**	**3,400**	**3,700**	**14,000**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**300**	**640**	**510**	**470**	**190**	**130**	**110**	**370**	**300**	**360**	**680**
	Mercury	N/A	51	85	510	930	N/A	N/A	**0.20**	**0.24**	**0.27**	0.029 U	**0.12**	**0.10**	**0.087**	**0.056**	**2.8**	**2.1**	0.026 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**39**	**47**	**45**	**55**	**42**	**24**	**21**	**46**	**19**	**22**	**58**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,300**	**2,400**	**3,500**	**14,000**	**2,800**	**1,700**	**1,000**	**7,500**	**1,500**	**1,700**	**13,000**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	6.4 U	7.7 U	5.7 U	5.7 U	7.0 U	6.6 U	7.1 U	5.7 U	6.7 U	7.0 U	5.2 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.64 U	0.77 U	**0.72**	0.57 U	0.70 U	0.66 U	0.71 U	0.57 U	0.67 U	0.70 U	0.52 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**130**	150 U	110 U	**180**	140 U	130 U	140 U	**220**	130 U	140 U	**130**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	3.8 U	2.9 U	2.9 U	3.5 U	3.3 U	3.6 U	2.9 U	3.3 U	3.5 U	2.6 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**40**	**47**	**51**	**83**	**52**	**45**	**70**	**71**	**30**	**35**	**71**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**88**	**130**	**210**	**62**	**72**	**44**	**81**	**320**	**500**	**600**	**52**
Metals, SPLP																			
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide																			
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.67 U	**0.93**	**1.4**	0.53 U	0.68 U	0.65 U	0.51 U	0.47 U	**9.2**	**7.9**	0.43 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		T-GP-14			T-GP-15			T-GP-16		
								Sample Location:	T-GP-14			T-GP-15			T-GP-16		
								Sample ID:	T-GP-14	T-GP-14	T-GP-14	T-GP-15	T-GP-15	T-GP-15	T-GP-16	Dup-2	T-GP-16
								Sample Depth (ft.):	0-1	1.5-5.5	6-7	0-1	1-1.5	2-6	0-1	0-1	1-2.5
								Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**								Field Dup	
EPH																	
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	13 U	14 U	11 U	13 U	11 U	10 U	12 U	12 U	10 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**57**	**160**	11 U	**52**	11 U	10 U	**18**	**30**	10 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**52**	**92**	11 U	**56**	**22**	10 U	**35**	**35**	10 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	**0.27**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	**0.50**	**0.22**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.13 U	**0.49**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	**0.66**	**0.57**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.13 U	**0.43**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	**0.22**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	**0.63**	**0.40**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	**1.2**	**0.34**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	**0.17**	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	**0.31**	**0.16**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	**0.22**	0.12 U	0.10 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	**1.2**	**0.44**	0.11 U	**0.14**	0.11 U	0.10 U	**0.21**	0.12 U	0.10 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	**1.1**	**0.32**	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.10 U
PCBs																	
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.13 U	0.14 U	0.11 U	0.13 U	0.11 U	0.10 U	0.12 U	0.12 U	0.099 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background										
								Sample Location:	T-GP-14			T-GP-15			T-GP-16		
								Sample ID:	T-GP-14	T-GP-14	T-GP-14	T-GP-15	T-GP-15	T-GP-15	T-GP-16	Dup-2	T-GP-16
								Sample Depth (ft.):	0-1	1.5-5.5	6-7	0-1	1-1.5	2-6	0-1	0-1	1-2.5
								Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**								Field Dup	
Metals, total																	
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**2,300**	**2,400**	**26,000**	**6,200**	**2,800**	**21,000**	**4,900**	**4,100**	**24,000**
	Antimony	N/A	68	110	680	120	1	N/A	**65**	**17**	2.7 U	**4.8**	2.8 U	2.6 U	**5.3**	**4.1**	2.5 U
	Arsenic	N/A	1	2	4	42	15	N/A	**9.2**	**4.2**	**4.9**	**20**	**4.6**	2.6 U	**3.8**	3.0 U	2.5 U
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**570**	**390**	**240**	**610**	**160**	**190**	**73**	**78**	**230**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.32 U	0.34 U	1.4 U	**1.0**	0.28 U	1.3 U	0.30 U	0.30 U	1.2 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**1.8**	**0.98**	**0.34**	**0.76**	0.28 U	**0.28**	**0.31**	0.30 U	**0.28**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,600**	**3,100**	**1,700**	**4,300**	**2,200**	**1,800**	**2,500**	**2,300**	**1,600**
	Chromium	N/A	510	850	5,100	2,800	N/A	N/A	**21**	**120**	**94**	**67**	**5.8**	**120**	**19**	**15**	**140**
	Cobalt	N/A	51	85	510	920	15	N/A	**5.1**	**5.8**	**19**	**9.3**	**5.6**	**16**	**5.6**	**4.8**	**17**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**900**	**3,200**	**12**	**170**	**23**	**9.5**	**97**	**91**	**8.5**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**12,000**	**14,000**	**27,000**	**17,000**	**6,900**	**24,000**	**17,000**	**14,000**	**25,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**4,300**	**3,400**	**2.8**	**350**	**32**	**4.3**	**170**	**160**	**3.0**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**760**	**510**	**14,000**	**1,200**	**330**	**12,000**	**840**	**750**	**14,000**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**460**	**140**	**410**	**170**	**35**	**390**	**93**	**65**	**460**
	Mercury	N/A	51	85	510	930	N/A	N/A	**4.8**	**3.2**	**0.035**	**1.1**	**0.070**	0.026 U	**0.42**	**0.35**	0.025 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**15**	**12**	**56**	**19**	**11**	**51**	**15**	**14**	**54**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	**190**	**11,000**	**350**	**230**	**7,900**	**370**	**420**	**13,000**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	6.4 U	6.8 U	5.4 U	6.6 U	5.7 U	5.1 U	6.0 U	5.9 U	4.9 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	**2.6**	**2.8**	0.54 U	0.66 U	0.57 U	0.51 U	0.60 U	0.59 U	0.49 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	130 U	140 U	**190**	**320**	110 U	**130**	120 U	120 U	**190**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	3.4 U	2.7 U	3.3 U	2.8 U	2.6 U	3.0 U	3.0 U	2.5 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**15**	**10**	**73**	**37**	**14**	**65**	**38**	**32**	**69**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**610**	**450**	**67**	**300**	**32**	**45**	**130**	**98**	**68**
Metals, SPLP																	
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																	
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A	NA	**17**	NA	NA	NA	NA	NA	NA	NA
Cyanide																	
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	**7.0**	**6.4**	0.44 U	**6.4**	0.42 U	0.51 U	**1.7**	**1.1**	0.39 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background						
								Sample Location:	T-GP-17			T-GP-18	T-GP-19
								Sample ID:	T-GP-17	T-GP-17	T-GP-17	T-GP-18R	T-GP-19R
								Sample Depth (ft.):	0-1	1-5.5	10-12	0-1	0-1
								Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/10/2012	12/10/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**					
EPH (mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	25 U	13 U	10 U	15 U	25 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**81**	**76**	10 U	**74**	25 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**100**	**75**	10 U	**50**	25 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.25 U	0.13 U	0.10 U	0.15 U	0.25 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.25 U	0.13 U	0.10 U	0.15 U	0.25 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.25 U	**0.26**	0.10 U	0.15 U	0.25 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	**0.52**	**0.74**	0.10 U	**0.21**	0.25 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	**0.51**	**0.74**	0.10 U	0.15 U	0.25 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	**0.80**	**1.1**	0.10 U	**0.38**	0.25 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	**0.45**	**0.46**	0.10 U	0.15 U	0.25 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	**0.30**	**0.37**	0.10 U	0.15 U	0.25 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	**0.66**	**0.86**	0.10 U	**0.29**	0.25 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.25 U	**0.22**	0.10 U	0.15 U	0.25 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	**0.89**	**1.5**	0.10 U	**0.46**	0.25 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.25 U	**0.13**	0.10 U	0.15 U	0.25 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	**0.40**	**0.67**	0.10 U	**0.23**	0.25 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.25 U	**0.13**	0.10 U	0.15 U	0.25 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.25 U	**0.18**	0.10 U	0.15 U	0.25 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	**0.38**	**0.90**	0.10 U	**0.31**	0.25 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	**0.94**	**1.4**	0.10 U	**0.39**	0.25 U
PCBs (mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.19**	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.31**	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12 U	0.13 U	0.10 U	0.15 U	0.13 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	**0.50**	0.13 U	0.10 U	0.15 U	0.13 U

Table 4
Summary of Analytical Results for Transmission Geoprobe Soil Samples -- December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background						
									Sample Location:	T-GP-17			T-GP-18	T-GP-19
									Sample ID:	T-GP-17	T-GP-17	T-GP-17	T-GP-18R	T-GP-19R
									Sample Depth (ft.):	0-1	1-5.5	10-12	0-1	0-1
									Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/10/2012	12/10/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**						
Metals, total														
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A		**11,000**	**3,500**	**20,000**	**16,000**	**27,000**
	Antimony	N/A	68	110	680	120	1	N/A		3.0 U	**5.8**	2.5 U	3.7 U	3.1 U
	Arsenic	N/A	1	2	4	42	15	N/A		3.0 U	**6.4**	**13**	**21**	**14**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A		**160**	**120**	**260**	**1,300**	**230**
	Beryllium	N/A	340	570	3,400	620	3	N/A		0.30 U	0.30 U	1.3 U	0.37 U	0.63 U
	Cadmium	N/A	11	18	94	19	0.4	N/A		**0.52**	**0.62**	**0.36**	**4.3**	**0.67**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**3,200**	**7,500**	**6,900**	**2,800**	**600**
	Chromium	N/A	510	850	5,100	2,800	N/A	N/A		**71**	**17**	**100**	**120**	**86**
	Cobalt	N/A	51	85	510	920	15	N/A		**9.1**	**5.4**	**16**	**12**	**12**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A		**120**	**110**	**7.1**	**470**	**16**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A		**37,000**	**21,000**	**24,000**	**38,000**	**28,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A		**210**	**750**	**3.2**	**2,100**	**120**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**4,200**	**2,000**	**13,000**	**5,900**	**6,300**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A		**1,100**	**170**	**720**	**490**	**140**
	Mercury	N/A	51	85	510	930	N/A	N/A		**0.33**	**0.46**	**0.036**	**6.3**	**0.17**
	Nickel	N/A	510	850	5,100	930	43	N/A		**37**	**24**	**45**	**32**	**30**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		**2,700**	**780**	**13,000**	**2,700**	**1,400**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A		5.9 U	6.1 U	5.1 U	7.5 U	6.3 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A		0.59 U	0.61 U	0.51 U	**2.3**	0.63 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		120 U	120 U	**200**	150 U	130 U
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A		3.0 U	3.0 U	2.5 U	3.7 U	3.1 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A		**40**	**21**	**67**	**58**	**77**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A		**140**	**150**	**51**	**1,100**	**140**
Metals, SPLP														
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A		NA	**44**	NA	NA	NA
Metals, TCLP														
(mg/L)	Lead	5^^	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA
Cyanide														
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A		**2.5**	**1.9**	**1.6**	**17**	**9.0**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed Maine RAGs or TCLP criteria, as appropriate.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

SPLP - Synthetic Precipitation Leaching Procedure.

TCLP - Toxicity Characteristic Leaching Procedure.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

^^ - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 5
Summary of Analytical Results for Transmission Line Parcel Hand Auger Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		Sample ID:	**T-HA-5**	**T-HA-9**
									Sample Depth (ft.):	0-1	0-1
									Sample Date:	11/8/2012	11/8/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**			
EPH											
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A		15 U	16 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A		15 U	**27**
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A		**33**	**47**
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072		0.15 U	0.16 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606		0.15 U	0.16 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63		0.15 U	0.16 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15		0.15 U	0.16 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57		0.15 U	0.16 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335		0.15 U	0.16 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035		0.15 U	0.16 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225		0.15 U	0.16 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1		0.15 U	0.16 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58		0.15 U	0.16 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635		0.15 U	0.16 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708		0.15 U	0.16 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6		0.15 U	0.16 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804		0.15 U	0.16 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368		0.15 U	0.16 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064		0.15 U	0.16 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71		0.15 U	0.16 U
PCBs											
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0.14 U	0.15 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A		0.14 U	0.15 U

Table 5
Summary of Analytical Results for Transmission Line Parcel Hand Auger Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		T-HA-5	T-HA-9
								Sample ID:	**T-HA-5**	**T-HA-9**
								Sample Depth (ft.):	0-1	0-1
								Sample Date:	11/8/2012	11/8/2012
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**		
Metals, total										
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**23,000**	**7,900**
	Antimony	N/A	68	110	680	120	1	N/A	3.5 U	3.7 U
	Arsenic	N/A	1	2	4	42	15	N/A	**34**	**4.1**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**57**	**17**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.69 U	0.37 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	0.35 U	0.37 U
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,500**	**640**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**46**	**7.5**
	Cobalt	N/A	51	85	510	920	15	N/A	**9.9**	3.7 U
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**8.9**	**5.0**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**22,000**	**7,700**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**25**	**18**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,800**	**550**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**130**	**38**
	Mercury	N/A	51	85	510	930	N/A	N/A	**0.071**	**0.065**
	Nickel	N/A	510	850	5,100	930	43	N/A	**38**	**4.2**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,000**	**310**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	6.9 U	7.4 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.69 U	0.74 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	140 U	150 U
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5 U	3.7 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**48**	**18**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**51**	**19**
Cyanide										
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.50 U	0.57 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 6
Summary of Analytical Results for Transmission Line Parcel Surface Water Sediment Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte							Sample ID:	**T-SWD-1**	**T-SWD-2**
								Sample Depth (ft.):	0-0.5	0-0.5
								Sample Date:	11/7/2012	11/7/2012
		Scenarios and Exposure Pathways*					Maine Background			
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**		
EPH										
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	17 U	14 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	17 U	14 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**23**	14 U
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.17 U	0.14 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.17 U	0.14 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.17 U	0.14 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	0.17 U	0.14 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	0.17 U	0.14 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	0.17 U	0.14 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	0.17 U	0.14 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.17 U	0.14 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	0.17 U	0.14 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.17 U	0.14 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	0.17 U	0.14 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.17 U	0.14 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	0.17 U	0.14 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.17 U	0.14 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.17 U	0.14 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	0.17 U	0.14 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	0.17 U	0.14 U
PCBs										
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.14 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	0.17 U	0.14 U

Table 6
Summary of Analytical Results for Transmission Line Parcel Surface Water Sediment Soil Samples -- November 2012
Little Falls
Windham, Maine

Analysis	Analyte								**T-SWD-1**	**T-SWD-2**
								Sample Depth (ft.):	0-0.5	0-0.5
								Sample Date:	11/7/2012	11/7/2012
		Scenarios and Exposure Pathways*					Maine Background			
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**		
Metals, total										
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**9,400**	**19,000**
	Antimony	N/A	68	110	680	120	1	N/A	4.1 U	3.4 U
	Arsenic	N/A	1	2	4	42	15	N/A	**7.2**	**6.9**
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**75**	**91**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.41 U	0.34 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.52**	**0.58**
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,200**	**3,200**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**16**	**59**
	Cobalt	N/A	51	85	510	920	15	N/A	**13**	**14**
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**14**	**14**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**21,000**	**29,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**29**	**22**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,000**	**8,900**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**1,800**	**1,000**
	Mercury	N/A	51	85	510	930	N/A	N/A	0.044 U	0.036 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**11**	**23**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,400**	**4,400**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	8.3 U	6.9 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.83 U	0.69 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170 U	**150**
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1 U	3.4 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**31**	**70**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**87**	**120**
Cyanide										
(mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	0.70 U	0.42 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

Table 7
Summary of Analytical Results for Transmission Line Parcel Near-Bank Soil Samples -- November and December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background										
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
	Sample ID:								**T-Bank-1**	**T-Bank-2**	**T-Bank-3**	**T-Bank-4**		**T-Bank-4-1**	**T-Bank-4-2**	**T-Bank-4-3**	**T-Bank-4-4**
	Sample Depth (ft.):								0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
	Sample Date:								11/7/2012	11/7/2012	11/7/2012	11/8/2012	11/8/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
													Field Dup				
EPH																	
(mg/kg)	C9-C18 Aliphatics	N/A	2,600	4,400	10,000	7,300	N/A	N/A	14 U	12 U	13 U	17 U	18 U	25 U	19 U	50 U	22 U
	C19-C36 Aliphatics	N/A	10,000	10,000	10,000	10,000	N/A	N/A	**34**	**41**	13 U	17 U	**130**	25 U	19 U	**98**	22 U
	C11-C22 Aromatics	460	730	1,200	4,500	4,700	N/A	N/A	**41**	**53**	**16**	**43**	**120**	**42**	**39**	**220**	**46**
	Acenaphthene	170	7,500	10,000	10,000	9,800	0.479	0.6072	0.14 U	0.12 U	0.13 U	0.17 U	**0.78**	0.25 U	0.19 U	0.50 U	0.22 U
	Acenaphthylene	68	7,500	10,000	10,000	10,000	0.4937	0.6606	0.14 U	0.12 U	0.13 U	0.17 U	0.18 U	0.25 U	0.19 U	0.50 U	0.22 U
	Anthracene	2,400	10,000	10,000	10,000	3,800	0.49	1.63	0.14 U	0.12 U	0.13 U	0.17 U	**1.7**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(a)anthracene	N/A	3	4	35	430	2.332	4.15	**0.36**	0.12 U	0.13 U	0.17 U	**2.9**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(a)pyrene	N/A	0.3	0.4	4	43	2.292	4.57	**0.41**	0.12 U	0.13 U	0.17 U	**2.8**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(b)fluoranthene	N/A	3	4	35	430	3.452	5.335	**0.46**	0.12 U	0.13 U	0.17 U	**3.6**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(g,h,i)perylene	N/A	3,700	6,200	10,000	10,000	1.487	2.035	**0.18**	0.12 U	0.13 U	0.17 U	**2.0**	0.25 U	0.19 U	0.50 U	0.22 U
	Benzo(k)fluoranthene	N/A	26	44	350	4,300	2.228	3.225	0.14 U	0.12 U	0.13 U	0.17 U	**1.3**	0.25 U	0.19 U	0.50 U	0.22 U
	Chrysene	N/A	260	440	3,500	10,000	3.76	4.1	**0.43**	0.12 U	0.13 U	0.17 U	**3.0**	0.25 U	0.19 U	0.50 U	0.22 U
	Dibenz(a,h)anthracene	N/A	0.3	0.4	4	43	0.48	0.58	0.14 U	0.12 U	0.13 U	0.17 U	**0.52**	0.25 U	0.19 U	0.50 U	0.22 U
	Fluoranthene	N/A	5,000	8,300	10,000	10,000	4.37	7.635	**0.78**	**0.19**	**0.14**	0.17 U	**7.9**	0.25 U	0.19 U	0.50 U	0.22 U
	Fluorene	120	5,000	8,300	10,000	10,000	0.426	0.708	0.14 U	0.12 U	0.13 U	0.17 U	**0.91**	0.25 U	0.19 U	0.50 U	0.22 U
	Indeno(1,2,3-cd)pyrene	N/A	3	4	35	430	1.55	2.6	**0.34**	0.12 U	0.13 U	0.17 U	**2.3**	0.25 U	0.19 U	0.50 U	0.22 U
	2-Methylnaphthalene	3.6	500	830	3,600	600	0.414	0.804	0.14 U	0.12 U	0.13 U	0.17 U	**0.19**	0.25 U	0.19 U	0.50 U	0.22 U
	Naphthalene	1.7	2,500	4,200	10,000	10,000	0.41	0.8368	0.14 U	0.12 U	0.13 U	0.17 U	**0.30**	0.25 U	0.19 U	0.50 U	0.22 U
	Phenanthrene	97	3,700	6,200	10,000	8,900	1.608	4.064	**0.45**	0.12 U	0.13 U	0.17 U	**7.2**	0.25 U	0.19 U	0.50 U	0.22 U
	Pyrene	N/A	3,700	6,200	10,000	10,000	4.016	6.71	**1.0**	**0.23**	0.13 U	0.17 U	**7.3**	0.25 U	0.19 U	0.50 U	0.22 U
PCBs																	
(mg/kg)	Aroclor-1016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1248	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.6**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.37**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	**0.28**
	Aroclor-1262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Aroclor-1268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27 U	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	0.22 U
	Total PCBs	N/A	2	4	12	7	N/A	N/A	**1.97**	0.12 U	0.13 U	0.16 U	0.17 U	0.12 U	0.19 U	0.25 U	**0.28**

Table 7
Summary of Analytical Results for Transmission Line Parcel Near-Bank Soil Samples -- November and December 2012
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*					Maine Background		T-Bank-1	T-Bank-2	T-Bank-3	T-Bank-4		T-Bank-4-1	T-Bank-4-2	T-Bank-4-3	T-Bank-4-4
								Sample ID:	T-Bank-1	T-Bank-2	T-Bank-3	T-Bank-4		T-Bank-4-1	T-Bank-4-2	T-Bank-4-3	T-Bank-4-4
								Sample Depth (ft.):	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
								Sample Date:	11/7/2012	11/7/2012	11/7/2012	11/8/2012	11/8/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
													Field Dup				
		Leaching to Groundwater	Residential	Park User	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**									
Metals, total																	
(mg/kg)	Aluminum	N/A	170,000	280,000	1,000,000	310,000	63,000	N/A	**14,000**	**20,000**	**12,000**	**8,400**	**9,200**	**11,000**	**13,000**	**2,600**	**8,900**
	Antimony	N/A	68	110	680	120	1	N/A	3.3 U	3.1 U	3.3 U	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Arsenic	N/A	1	2	4	42	15	N/A	**5.3**	**18**	**11**	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Barium	N/A	10,000	10,000	10,000	10,000	490	N/A	**130**	**97**	**38**	**31**	**30**	**34**	**58**	**31**	**41**
	Beryllium	N/A	340	570	3,400	620	3	N/A	0.66 U	0.62 U	0.33 U	0.40 U	0.84 U	0.30 U	0.47 U	0.63 U	0.51 U
	Cadmium	N/A	11	18	94	19	0.4	N/A	**0.80**	**0.60**	0.33 U	0.40 U	0.42 U	0.30 U	0.47 U	0.63 U	0.51 U
	Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,700**	**770**	**690**	**940**	**1,000**	**750**	**2,400**	**4,200**	**1,900**
	Chromium^	N/A	510	850	5,100	2,800	N/A	N/A	**67**	**65**	**34**	**22**	**25**	**22**	**32**	**6.0**	**20**
	Cobalt	N/A	51	85	510	920	15	N/A	**13**	**9.2**	**6.1**	**5.9**	**5.2**	**4.9**	**8.4**	6.3 U	5.1 U
	Copper	N/A	2,400	4,000	10,000	4,300	28	N/A	**100**	**67**	**7.2**	**11**	**11**	**1.3**	**11**	**11**	**10**
	Iron	N/A	120,000	200,000	1,000,000	220,000	40,000	N/A	**61,000**	**25,000**	**14,000**	**10,000**	**11,000**	**11,000**	**16,000**	**3,200**	**11,000**
	Lead	N/A	340	530	1,100	950	N/A	N/A	**100**	**190**	**20**	**24**	**26**	**6.4**	**18**	**11**	**17**
	Magnesium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6,500**	**5,500**	**4,300**	**3,300**	**3,600**	**2,800**	**5,500**	**1,200**	**3,300**
	Manganese	N/A	4,100	6,800	10,000	7,400	1,100	N/A	**700**	**150**	**100**	**93**	**100**	**85**	**340**	**130**	**130**
	Mercury	N/A	51	85	510	930	N/A	N/A	**0.32**	**0.39**	**0.046**	**0.059**	**0.10**	0.031 U	0.048 U	**0.088**	0.054 U
	Nickel	N/A	510	850	5,100	930	43	N/A	**45**	**26**	**15**	**11**	**12**	**8.4**	**16**	**4.4**	**10**
	Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6,100**	**1,500**	**1,500**	**1,200**	**1,300**	**830**	**2,200**	**910**	**1,400**
	Selenium	N/A	850	1,400	8,500	1,500	0.8	N/A	6.6 U	6.2 U	6.6 U	8.0 U	8.4 U	6.0 U	9.4 U	13 U	10 U
	Silver	N/A	850	1,400	8,500	1,500	N/A	N/A	0.66 U	0.62 U	0.66 U	0.80 U	0.84 U	0.60 U	0.94 U	1.3 U	1.0 U
	Sodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	130 U	120 U	130 U	160 U	170 U	120 U	190 U	250 U	210 U
	Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.3 U	3.1 U	3.3 U	4.0 U	4.2 U	3.0 U	4.7 U	6.3 U	5.1 U
	Vanadium	N/A	1,200	2,000	10,000	2,200	100	N/A	**56**	**51**	**43**	**20**	**22**	**23**	**31**	**6.5**	**20**
	Zinc	N/A	10,000	10,000	10,000	10,000	100	N/A	**170**	**120**	**28**	**38**	**38**	**22**	**68**	**37**	**39**
Cyanide (mg/kg)	Cyanide	N/A	100	170	1,000	1,900	N/A	N/A	**0.68**	**2.6**	0.58 U	0.64 U	0.69 U	**1.0**	0.52 U	1.2 U	1.0 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed Maine RAGs.

Values shown in **Bold** and with double line border exceed one or more of the listed Maine RAGs but are less than the listed Rural Background value.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

APPENDIX A

Field Investigation Photo Log
Little Falls Site
Windham, Maine

1. Image showing location of T-TP-1 on 11-6-2012.

2. Test pit wall at T-TP-1 on 11-6-2012.

3. Image showing contents of T-TP-1 including bricks, scrap metals, slag, cinders and glass.

4. Image showing completion of T-TP-1 on 11-6-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

5. Image showing location of T-TP-2 on 11-6-2012.

6. Test pit wall at T-TP-2 on 11-6-2012.

7. Image showing contents of T-TP-2 including weathered shale fragments, slag, cinder, ash and scrap metal.

8. Image showing completion of T-TP-2 on 11-6-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

9. Image showing location T-TP-3 on 11-6-2012.

10. Image showing contents of T-TP-3.

11. Image showing location of T-TP-4 on 11-6-2012.

12. Test pit side wall at T-TP-4.

13. Test pit side wall at T-TP-4.

14. Image showing contents of T-TP-4 on 11-6-2012.

15. Image showing sidewall at T-TP-5 on 11-6-2012.

16. Image showing fill in sidewall at T-TP-5 at surface.

17. Image showing contents of T-TP-5 including slag, wood, ash, glass, scrap metal and brick.

18. Image showing location of T-TP-6 on 11-7-2012.

19. Test pit sidewall at T-TP-6 on 11-7-2012 showing slag, cinder, ash and glass at a depth of 1-2 feet.

20. Image showing completion of T-TP-6 on 11-7-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

21. Image showing location of T-TP-7 on 11-7-2012.

22. Test pit sidewall at T-TP-7 on 11-7-2012.

23. Image showing contents of T-TP-7 including slag, wood, scrap metals, glass and bricks.

24. Image showing completion of T-TP-7 on 11-7-2012.

25. Image showing location of T-TP-8 on 11-7-2012.

26. Test pit sidewall at T-TP-8 on 11-7-2012.

27. Image showing bedrock at T-TP-8 at a depth of 4-feet.

28. Image showing location T-TP-9 on 11-7-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

29. Test pit side wall at T-TP-9 on 11-7-2012.

30. Image showing contents of T-TP-9 on 11-7-2012.

31. Image showing location of T-TP-10 on 11-7-2012.

32. Test pit sidewall at T-TP-10 on 11-7-2012.

33. Image showing location of H-TP-1 on 11-7-2012.

34. Test pit sidewall at H-TP-1 on 11-7-2012.

35. Stamped metal observed in H-TP-1 on 11-7-2012.

36. Image showing completion of H-TP-1 on 11-7-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

37. Image showing location of H-TP-2 on 11-7-2012.

38. Test pit sidewall at H-TP-2 on 11-7-2012.

39. Image showing contents of H-TP-2 including bricks and rock fragments.

40. Image showing completion of H-TP-2 on 11-7-2012.

Field Investigation Photo Log
Little Falls Site
Windham, Maine

41. Image showing location of H-TP-3 on 11-7-2012.

42. Test pit sidewall at H-TP-3 on 11-7-2012.

43. Image showing bedrock in H-TP-3 at a depth of 5-feet.

44. Image showing completion of H-TP-3 on 11-7-2012.

45. Image showing location of H-TP-4 on 11-7-2012.

46. Test pit sidewall at H-TP-4 on 11-7-2012.

47. Image showing contents of H-TP-4 including bricks, asphalt, concrete and burnt wood.

48. Image showing completion of H-TP-4 on 11-7-2012.

APPENDIX B

400 Southborough Drive
South Portland, Maine 04106
Phone: 207-879-1930
Fax: 207-879-9293

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-BANK-1
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/7/2012
LOCATION East bank of the Presumpscot River
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Dark-brown SAND, some organics (roots), little angular gravel (quartzite).	0.0	T-BANK-1 1130	No Monitoring Well Installed
					End of Boring @ .5 feet.			

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South Portland, Maine 04106
Phone: 207-879-1930
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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-BANK-2
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/7/2012
LOCATION East bank of the Presumpscot River
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Light-brown SAND, trace organics.	0.0	T-BANK-2 1125	No Monitoring Well Installed
					End of Boring @ .5 feet.			

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South Portland, Maine 04106
Phone: 207-879-1930
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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-BANK-3
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/7/2012
LOCATION East bank of the Presumpscot River
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Brown TOPSOIL, trace gravel (quartzite).	0.0	T-BANK-3 1040	No Monitoring Well Installed
					End of Boring @ .5 feet.			

400 Southborough Drive
South Portland, Maine 04106
Phone: 207-879-1930
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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-BANK-4
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East bank of the Presumpscot River
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Brown SAND and SILT, some organics, little sub-angular gravel.	0.0	T-BANK-4 1555 DUP-4 1555	No Monitoring Well Installed
					End of Boring @ .5 feet.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER H-GP-1
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of H-TP-1
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610 DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 11
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/24	S-1		0-4" Brown to red SILT and ORGANICS, little fine sand.	0.0		
1					4-18" Tan to gray fine to coarse SAND and GRAVEL, little silt and cobbles.		H-GP-1 (0-1) 1445	
2					18-24" Black SILT, little fill (slag and coal). No Recovery			
3								
4							H-GP-1 (1.5-5.5) 1450	
5		60/31	S-2		0-6" Dark-brown SILT, little fill (slag and coal), trace fine to medium sand.	0.0		No Monitoring Well Installed
6					6-14" Tan to light-brown SILT, some fine to coarse gravel, little fine to coarse sand.			
					14-16" Gray pulverized GRAVEL.			
7					16-31" Tan to light-brown SILT and fine SAND, wet at 20-inches. No Recovery			
8								
9								
10		12/12	S-3		0-12" Tan to light-brown SILT and fine SAND, wet.	0.0	H-GP-1 (10-11) 1455	
11					End of Boring @ 11 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER H-GP-2
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION North of H-TP-1
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610 DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 12
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/38	S-1		0-1" Brown SILT and ORGANICS.	0.0		
					1-12" Brown to gray fine to coarse SAND and GRAVEL.		H-GP-2 (0-1) 1530	
1					12-21" Brown to black fine to coarse SAND and GRAVEL, little fill (ash and coal).			
2					21-30" Gray to light-brown fine to coarse SAND and GRAVEL, some silt, little fill (slag and coal).			
3					30-38" Dark-brown SILT, some fine to coarse sand and gravel, little fill (slag, coal and ash).			
					No Recovery		H-GP-2 (1-6) 1535	
4								
5		60/31	S-2		0-6" Dark-brown SILT, some fine to coarse sand and gravel, little fill (slag, coal and ash).	0.0		No Monitoring Well Installed
					6-9" Light-brown fine to coarse SAND, little silt.			
6					9-13" Brown to black fine to coarse SAND and SILT, little fill (coal).			
					13-31" Tan SILT and CLAY, little fine to coarse SAND.			
7							H-GP-2 (6.5-7.5) 1540	
					No Recovery			
8								
9								
10		24/24	S-3		0-24" Tan SILT and CLAY, little fine to coarse SAND.	0.0		
11								
12					End of Boring @ 12 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER H-GP-3
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION South of H-TP-1
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610 DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 9
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/40	S-1		0-4" Light-brown to tan fine to medium SAND, some silt.	0.0		
					4-20" Dark-brown SILT, some fine to coarse sand and gravel.		H-GP-3 (0-1) 1600	
1								
2					20-26" Tan fine to coarse SAND.			
					26-40" Dark-brown SILT, little fine sand and coarse gravel, trace fill (coal).			
3							H-GP-3 (2.5-3.5) 1605	
					No Recovery			
4								
5		48/44	S-2		0-44" Tan to red SILT, trace fine sand, dense.	0.0		No Monitoring Well Installed
6							H-GP-3 (5-7) 1610	
7								
8								
9					No Recovery			
					End of Boring @ 9 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-1
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION North end of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 9
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/24	S-1		0-2" Brown SILTY TOPSOIL.	0.4		
					2-19" Brown medium to coarse SAND, some silt, little fine gravel, trace fill (brick).		T-GP-1 (0-1) 0945	
1								
2					19-24" Gray FILL (fine to coarse sand and gravel, some concrete and ash). No Recovery			
3								
4								
5		48/48	S-2		0-6" Gray FILL (fine to coarse sand and gravel, some concrete and ash).	0.1		No Monitoring Well Installed
					6-48" Tan SILT, trace fine gravel.		T-GP-1 (4-6.5) 0950	
6								
7								
8							T-GP-1 (7-9) 1000	
9					End of Boring @ 9 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-2
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 8
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/30	S-1		0-12" Dark-brown to black SILT, little fine sand, trace fill (brick and concrete) and organics. 12-24" Dark-brown to black SILT, some fine to coarse sand, little fill (glass, brick, fabric and possible rubber).	0.0	T-GP-2 (0-1) 1050	
1								
2					24-30" Gray SILT, some fine to coarse sand. No Recovery			
3								
4							T-GP-2 (2-6) 1055	
5		36/36	S-2		0-6" Gray SILT, some fine to coarse sand. 6-12" Dark-brown to black SILT and fine to coarse SAND and FILL (brick and glass). 12-18" Gray to tan SILT, some fine to coarse sand, trace fill (brick), dense.			No Monitoring Well Installed
6								
7					18-36" Gray fine to coarse SAND and SILT, some brown silt, little fine to medium gravel.	0.0	T-GP-2 (6-8) 1105	
8					End of Boring @ 8 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-3
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 7
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/36	S-1		0-6" Dark-brown SILT, little organics, trace fine sand.	0.0		
1					6-15" Dark-brown to black fine to coarse SAND and fine to medium GRAVEL, some fill (ash, slag and brick).		T-GP-3 (0-1) 1145	
2					15-36" Tan to gray SILT and fine SAND, little medium to coarse sand.		T-GP-3 (1-1.5) 1150	
3					No Recovery			
4								
5		24/24	S-2		0-24" Tan to gray SILT and fine SAND, little medium to coarse sand.	0.0		No Monitoring Well Installed
6							T-GP-3 (5-7) 1155	
7					End of Boring @ 7 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-4
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 6
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/34	S-1		0-5" Dark-brown SILT, some organics (roots), little fine to coarse gravel.	0.0		
					5-10" Black FILL (fine to coarse sand, slag, brick and pulverized concrete).		T-GP-4 (0-1) 1225	
1					10-34" Tan to light-brown SILT, some fine to coarse gravel (native).			
2								
3					No Recovery			
4								
5		12/12	S-2		0-12" Tan to light-brown SILT, some fine to coarse gravel (native).	0.0	T-GP-4 (4-6) 1230	No Monitoring Well Installed
6					End of Boring @ 6 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-5
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION West of Transmission Line easement
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 8
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/26	S-1		0-12" Brown to dark-brown SILT, some fine to coarse sand and organics, little fine to medium gravel.	0.0	T-GP-5 (0-1) 1255	
1					12-16" Black FILL (ash and slag).		T-GP-5 (1-1.5) 1300	
					16-26" Tan to brown SILT, some fine to coarse sand.			
2					No Recovery			
3								
4								
5		36/36	S-2		0-36" Gray SILT, some fine to medium sand.	0.0		No Monitoring Well Installed
6								
7							T-GP-5 (6-8) 1305	
8					End of Boring @ 8 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-6
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION East of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 6.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/42	S-1		0-3" Dark-brown SILT with organics.	0.0		
					3-14" Tan SILT, little fine gravel.		T-GP-6 (0-1) 1325	
1								
					14-42" Gray SILT and fine to coarse SAND, some fine gravel, little pulverized gravel.			
2								
							T-GP-6 (1.5-3.5) 1330	
3								
					No Recovery			
4								
5		18/18	S-2		0-18" Gray SILT and fine to coarse SAND, some fine gravel, little pulverized gravel.	0.0		No Monitoring Well Installed
6								
					End of Boring @ 6.5 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-7
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION East of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 4
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		48/32	S-1		0-6" Dark-brown SILT, some organics, little fine to coarse sand and fine to medium gravel, trace fill (glass and ash).	0.0		
1					6-10" Dark-brown SILT and fine to coarse SAND, trace fill (coal and ash).		T-GP-7 (0-1) 1400	
2					10-32" Gray SILT and fine to coarse SAND and fine to medium GRAVEL.		T-GP-7 (1-2.5) 1405	
3					No Recovery			
4					End of Boring @ 4 feet (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-8
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION West of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 3
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		36/30	S-1		0-3" Brown SILT, trace fine to coarse sand and fine gravel.	0.0		
1					3-30" Tan to gray SILT and fine to coarse SAND and fine to coarse GRAVEL.		T-GP-8 (0-1) 1430	
2							T-GP-8 (1-2.5) 1435	
					No Recovery			
3					End of Boring @ 3 feet (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-9
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION East of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 6.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/38	S-1		0-8" Dark-brown SILT, little organics, trace fine sand.	0.0		
					8-16" Brown to tan SILT and fine SAND, some organics (roots) and fine to medium gravel.		T-GP-9 (0-1) 1455	
1					16-26" Brown to gray SILT, some fine to coarse sand, little fine to coarse gravel.			
2					26-30" Gray pulverized GRAVEL.			
					30-38" Light-brown to tan to gray fine to coarse SAND, some silt and fine to coarse gravel.			
3					No Recovery			
4								
							T-GP-9 (2.5-6.5) 1500	
5		18/18	S-2		0-18" Light-brown to tan to gray fine to coarse SAND, some silt and fine to coarse gravel.	0.0		No Monitoring Well Installed
6								
					End of Boring @ 6.5 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-10
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/4/2012
LOCATION West of Transmission Line
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 4
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		48/39	S-1		0-12" Brown to tan SILT, some organics, trace fine sand.	0.0	T-GP-10 (0-1) 1530	
1					12-39" Tan to gray fine to coarse SAND, some silt, little fine to medium gravel.			
2							T-GP-10 (1-3) 1535	
3								
					No Recovery			
4					End of Boring @ 4 feet (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-11
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION South from TP-7, flag 100
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 3
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		36/36	S-1		0-4" Dark-brown SILT with organics. 4-12" Brown to tan SILT, little organics, trace fine to medium gravel.	0.0	T-GP-11 (0-1) 0850	
1					12-36" Tan to gray SILT and fine SAND, little fine to medium gravel, trace pulverized gravel.			
2							T-GP-11 (1-3) 0855	
3					End of Boring @ 3 feet (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-12
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line, flag 200, south of TP-7
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 7
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/44	S-1		0-4" Dark-brown SILT, some organics, trace fine to medium sand and fine to coarse gravel.	0.0		
					4-8" Brown to red SILT, some fine to coarse sand and gravel.		T-GP-12 (0-1) 0920	
1					8-44" Light-brown to gray SILT and fine to coarse SAND and fine to coarse GRAVEL, trace pulverized gravel.			
2							T-GP-12 (1-3) 0925	
3								
4					No Recovery			
5		24/24	S-2		0-24" Light-brown to gray SILT and fine to coarse SAND and fine to coarse GRAVEL, trace pulverized gravel.	0.0		No Monitoring Well Installed
6								
7					End of Boring @ 7 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-13
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line, flag 300, east of TP-7
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 6
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/38	S-1		0-2" Dark-brown SILT with organics, trace fine gravel.	0.0		
					2-10" Dark-brown to black fine to coarse SAND, some fill (ash, slag and coal), little fine to coarse gravel.		T-GP-13 (0-1) 1000 DUP-1	
1					10-12" Red SILT and CLAY, some organics (wood).			
					12-38" Tan to gray SILT, some fine to coarse sand.			
2							T-GP-13 (1-3) 1005	
3					No Recovery			
4								
5		12/12	S-2		0-6" Tan to gray SILT, some fine to coarse sand.	0.0		No Monitoring Well Installed
					6-12" Gray pulverized GRAVEL.			
6					End of Boring @ 6 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-14
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line, flag 400, north of TP-7
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 8
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/21	S-1		0-2" Dark-brown SILT and ORGANICS.	0.0		
					2-21" Black FILL (ash, slag, coal and glass), little fine to coarse sand and gravel, trace roots.		T-GP-14 (0-1) 1035	
1								
2					No Recovery			
3								
							T-GP-14 (1.5-5.5) 1040	
4								
5		36/30	S-2		0-6" Black FILL (ash, slag, coal and glass), little fine to coarse sand and gravel, trace roots.	0.0		No Monitoring Well Installed
					6-11" Dark-brown to red SILT, little fine to coarse sand.			
6					11-21" Brown SILT, some fine sand.			
							T-GP-14 (6-7) 1045	
7					21-30" Gray SILT and fine to coarse SAND and GRAVEL.			
					No Recovery			
8					End of Boring @ 8 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-15
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line, flag 500
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 6
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/28	S-1		0-4" Brown to dark-brown SILT with organics, trace fine to coarse sand.	0.0		
1					4-20" Black FILL (coal, slag and ash), some fine to coarse sand, little red silt and clay.		T-GP-15 (0-1) 1145 T-GP-15 (1-1.5) 1150	
2					20-28" Tan to orange SILT, some fine to coarse sand and gravel.			
					No Recovery			
3								
4							T-GP-15 (2-6) 1155	
5		12/12	S-2		0-6" Pulverized GRAVEL.	0.0		No Monitoring Well Installed
					6-12" Tan to orange SILT, some fine to coarse sand and gravel.			
6					End of Boring @ 6 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-16
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line, flag 600
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/32	S_1		0-2" Dark-brown to black SILT, some fine to coarse sand, fill (slag) and organics.	0.0		
1					2-12" Black FILL (ash, slag and coal), little fine to coarse sand.		T-GP-16 (0-1) 1240 DUP-2	
					12-16" Tan to orange SILT, little fine to coarse sand.			
2					16-32" Tan to gray SILT and fine to coarse SAND, some fine to coarse gravel.		T-GP-16 (1-2.5) 1245	
3					No Recovery			
4								
5					End of Boring @ 5 feet (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-17
TRC GEOLOGIST S. Mayer
DRILLING CONTRACTOR/FOREMAN Geosearch/Rodney Caddy
DATE DRILLED 12/5/2012
LOCATION West of Transmission Line at north end, flag 700
SAMPLING METHOD 60" Macrocore
DRILLING METHOD Direct Push 6610DT Track Rig

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 12
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
		60/24	S-1		0-6" Dark-brown SILT, some fine to coarse sand and gravel, little organics.	0.0		
					6-24" Black FILL (coal, ash, slag and brick).		T-GP-17 (0-1) 1345	
1								
2					No Recovery			
3								
							T-GP-17 (1-5.5) 1350	
4								
5		60/14	S-2		0-6" Black FILL (coal, ash, slag and brick).	0.0		No Monitoring Well Installed
					6-14" Gray fine to coarse SAND and GRAVEL, some pulverized gravel.			
6					No Recovery			
7								
8								
9								
10		24/24	S-3		0-24" Gray fine to coarse SAND and GRAVEL, some pulverized gravel.	0.0		
11							T-GP-17 (10-12) 1355	
12					End of Boring @ 12 feet (refusal)			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-18
TRC GEOLOGIST C. Springer
DRILLING CONTRACTOR/FOREMAN TRC/C. Springer
DATE DRILLED 12/10/2012
LOCATION West of TP-6
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1					0-5" Dark-brown SOIL ORGANIC MATTER, decayed LEAVES, SAND and SILT with roots, trace fill (glass and porcelain) at surface. 5-12" Dark to medium-brown medium to coarse SAND, some silt, little rounded to angular gravel to 8-inches, angular gravel (weathered bedrock) at bottom. End of Boring @ 1 foot (refusal)		T-GP-18 (0-1) 1400	No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-GP-19
TRC GEOLOGIST C. Springer
DRILLING CONTRACTOR/FOREMAN TRC/C. Springer
DATE DRILLED 12/10/2012
LOCATION West of TP-6
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-5" Dark-brown SOIL ORGANIC MATTER, decayed leaves and SILT, loose.			
1					5-12" Reddish-brown SILT, some fine sand and trace gravel, angular gravel (weathered bedrock) at bottom.		T-GP-19 (0-1) 1430	
					End of Boring @ 1 foot (refusal)			No Monitoring Well Installed

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-1
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown to yellow-orange fine SAND, little organics (roots) [NATIVE].	0.0	T-HA-1 1150	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-2
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown fine SAND, little organics (roots), trace fine gravel [NATIVE].	0.0	T-HA-2 1130	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-3
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-3" Dark-brown to black SILTY SAND, with organics (roots) [NATIVE].			
					3-12" Light-brown SILTY SAND, little organics (roots) [NATIVE].	0.0	T-HA-3 1220	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-4
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Dark-brown SILTY SAND, little organics (roots), trace fine rounded gravel [NATIVE].	0.0	T-HA-4 1245	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-5
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown to yellow-orange SILTY SAND, little organics (roots), trace sub-angular gravel [NATIVE].	0.0	T-HA-5 1340	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-6
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown SILTY SAND, little organics (roots)[NATIVE].	0.0	T-HA-6 1325	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-7
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown to orange fine SAND, little organics(roots), little sub-angular gravel [NATIVE].	0.0	T-HA-7 1530	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-8
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Dark-brown fine SAND, little organics (roots), little fine sub-angular gravel [NATIVE].	0.0	T-HA-8 1515	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-9
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-2" Dark-brown to black fine SAND with organics (roots) [NATIVE].			
					2-12" Light-brown SILTY SAND, little sub-angular and organics (roots) [NATIVE].	0.0	T-HA-9 1540	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-HA-10
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/8/2012
LOCATION East of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger
NOTES Sample not analyzed.

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 1
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-12" Light-brown SILTY SAND, little organics, little fine gravel [NATIVE].	0.0	T-HA-10 1600	No Monitoring Well Installed
1					End of Boring @ 1 foot.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-SWD-1
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/7/2012
LOCATION Along Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Brown organic TOPSOIL, wet.	0.0	T-SWD-1 1000	No Monitoring Well Installed
					End of Boring @ .5 feet.			

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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER Sappi Fine Paper / 191981
BORING/WELL NUMBER T-SWD-2
TRC GEOLOGIST J. Robinson
DRILLING CONTRACTOR/FOREMAN TRC/Jeffrey Robinson
DATE DRILLED 11/7/2012
LOCATION West of Transmission Line
SAMPLING METHOD Grab
DRILLING METHOD Hand Auger

SCREEN TYPE/SLOT NA
FILTER PACK TYPE NA
SEAL TYPE NA
DEPTH TO WATER (Approximate Feet) NA
TOTAL DEPTH (Feet) 0.5
GROUND ELEVATION (Feet)
REFERENCE ELEVATION (Feet)

NOTES Soil sample analyzed for PCBs, TAL Metals + Cyanide, EPH (including PAHs), % solids.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	Sample Type/#	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
					0-6" Brown organic TOPSOIL, wet.	0.0	T-SWD-2 1005	No Monitoring Well Installed
					End of Boring @ .5 feet.			

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1530	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: H-TP-1	
Reach/Capacity: 15 feet	Total Depth: 5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1.5' Brown SAND and ROUNDED GRAVEL, trace fill (whole bricks).	H-TP-1(0-1') @ 1535 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
2		1.5-3.5' Dark –brown to gray SAND, with weathered rock (shale) [NATIVE].	H-TP-1(2-3') @ 1545 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
3		3.5-5' Dark-brown to black SAND, with rounded gravel [NATIVE].	
4			H-TP-1(4-5') @ 1555 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
5		End of Test Pit @ 5 feet [BEDROCK].	
6			
7			
8			
9			
10			

H-TP-1

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1500	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: H-TP-2	
Reach/Capacity: 15 feet	Total Depth: 4.5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1 2 3 4		0-1' Brown SAND, some organics [FILL]. 1-4.5' Brown SAND, some gravel, trace fill (bricks), above weathered rock (shale ledge) [FILL].	H-TP-2 (0-1') @ 1505 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
5 6 7 8 9 10		End of Test Pit @ 4.5 feet [BEDROCK].	

H-TP-2

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1415	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: H-TP-3	
Reach/Capacity: 15 feet	Total Depth: 5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown fine to coarse SAND , some sub-rounded gravel [FILL].	H-TP-3 (0-1') @ 1425 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
2		1-4' Light-brown fine SAND, trace fill (brick).	H-TP-3 (2-4') @ 1435 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
3			
4		4-5' Dark-brown SAND, some angular gravel [FILL].	H-TP-3 (4-5') @ 1440 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
5		End of Test Pit @ 5 feet [BEDROCK].	
6			
7			
8			
9			
10			

H-TP-3

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1325	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: H-TP-4	
Reach/Capacity: 15 feet	Total Depth: 14 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
		0-2' Brown fine SAND, little rounded gravel [FILL].	H-TP-4 (0-1') @ 1330 for PCBs, TAL Metals, EPHs *DUP-3 Headspace: 0.0 ppm.
2		2-3.5' Brown very fine SAND, trace fill (whole bricks, concrete fragments, gravel, cobbles, burnt wood).	
4			
		3.5-9' Light-brown fine to medium SAND, trace fill (gravel, bricks, cobbles).	H-TP-4 (5-6') @ 1335 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
6			
8			
10		9-10' SAND and GRAVEL with fill (brick, asphalt, iron pipe fragments). 10-10.5' Light-brown fine to medium SAND, trace fill (bricks).	
12		10.5-14' Dark –brown to grey PEAT, moist, heavy organic odor [NATIVE].	H-TP-4 (12-14') @ 1340 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
14			
		End of Test Pit @ 14 feet.	
16			
18			
20			

H-TP-4

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/6/2012 1000	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-1	
Reach/Capacity: 15 feet	Total Depth: 13 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 30° Sunny	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
2, 4		0-3' Brown fine to medium SAND, little angular gravel, trace fill (brick fragments).	T-TP-1 (0-1') @ 1000 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
6, 8		3-9' Brown fine to medium SAND, little angular gravel, trace fill (brick fragments and scrap metal.	
10, 12		9-10' Brown fine to medium SAND, with fill (slag, cinder, bricks, glass, fire brick).	T-TP-1 (8-10') @ 1010 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
14		10-13' Brown fine to medium SAND, some gravel [NATIVE].	T-TP-1 (12-13') @ 1025 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
16, 18, 20		End of Test Pit @ 13 feet.	

T-TP-1

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/6/2012 1115	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-2	
Reach/Capacity: 15 feet	Total Depth: 4 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 30° Sunny	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-2' Brown SAND and GRAVEL with fill (slag, cinder, ash).	T-TP-2 (0-1') @ 1125 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
2		2-3.5' Brown SAND , some weathered shale, trace fill (scrap metal, gravel slag).	
3		3.5-4' Light-brown to yellow-orange SAND, little gravel,(weathered shale fragments) [NATIVE].	T-TP-2 (3-4') @ 1135 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
4		End of Test Pit @ 4 feet [BEDROCK].	
5			
6			
7			
8			
9			
10			

T-TP-2

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/6/2012 1255	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-3	
Reach/Capacity: 15 feet	Total Depth: 5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 30° Sunny	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1 2 3 4		0-3.5' Brown SAND, some gravel and fill (slag, glass). 3.5-5' Light -brown to yellow-orange SAND and WEATHERED SHALE [NATIVE].	T-TP-3 (0-1') @ 1300 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm. T-TP-3 (3.5-5') @ 1315 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
5 6 7 8 9 10		End of Test Pit @ 5 feet [BEDROCK].	

T-TP-3

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/6/2012 1330	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-4	
Reach/Capacity: 15 feet	Total Depth: 5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 30° Sunny	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown SAND, little gravel [FILL].	T-TP-4 (0-1') @ 1345 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
2		1-3' Brown SAND and FILL (gravel, slag, cinder, cement).	T-TP-4 (1-3') @ 1400 for PCBs, TAL Metals, EPHs
3		3-5' Brown to orange-tan SAND, with weathered shale [NATIVE].	T-TP-4 (4-5') @ 1415 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
4			
5		End of Test Pit @ 5 feet [BEDROCK].	
6			
7			
8			
9			
10			

T-TP-4

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/6/2012 1430	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-5	
Reach/Capacity: 15 feet	Total Depth: 9 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 30° Sunny	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown SAND and FILL (slag, wood, bottles, brick, fire brick, fabric).	T-TP-5 (0-1') @ 1440 for PCBs, TAL Metals, EPHs *DUP-1
2		1-2.5' Brown SAND with fill (slag, cinder, ash, scrap metal).	Headspace: 0.0 ppm.
3		2.5-4' Dark -brown SAND, trace sub-rounded gravel [NATIVE].	T-TP-5 (2.5-3.5') @ 1450 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
4			
5			
6			
7		4-9' Light -brown very fine SAND, some rounded gravel [NATIVE].	
8			T-TP-5 (8-9') @ 1500 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
9			
10		End of Test Pit @ 9 feet [BEDROCK].	

T-TP-5

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 0700	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-6	
Reach/Capacity: 15 feet	Total Depth: 5.5 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown TOPSOIL, some sub-angular to sub-rounded gravel and organics [FILL].	T-TP-6 (0-1') @ 0745 for PCBs, TAL Metals, EPHs
2		1-2' Brown SAND and GRAVEL with fill (slag, cinder, ash, glass).	T-TP-6 (1-2') @ 0755 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
3		2-3.5' Orange to tan SAND [NATIVE].	
4		3.5-5.5' Red to orange SAND, some angular gravel (weathered shale)[NATIVE].	T-TP-6 (3.5-5.5') @ 0800 for PCBs, TAL Metals, EPHs
5			Headspace: 0.0 ppm.
6		End of Test Pit @ 5.5 feet [BEDROCK].	
7			
8			
9			
10			

T-TP-6

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

Test Pit Log

TRC	Project: Little Falls, Maine	Date/Time: 11/7/2012 0830	Sheet 1 of 1
Test Pit Log	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-7	
Reach/Capacity: 15 feet	Total Depth: 6 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown SAND, little sub-angular gravel and fill (slag , wood).	T-TP-7 (0-1') @ 0845 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
2		1-2' Brown SAND, little sub-angular gravel and fill (wood, scrap metal, fire bricks, slag).	T-TP-7 (2-3') @ 0850 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
3		2-4' Brown SAND and ANGULAR GRAVEL, little fill (wood, slag, trace metal, glass bottles), moist.	
4			
5		4-6' Orange to tan SAND and WEATHERED SHALE FRAGMENTS[NATIVE].	T-TP-7 (5-6') @ 0900 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
6			
7		End of Test Pit @ 6 feet [BEDROCK].	
8			
9			
10			

T-TP-7

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 0900	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-8	
Reach/Capacity: 15 feet	Total Depth: 4 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 35° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1 2 3		0-1' Brown to orange-red fine SAND, little angular gravel (weathered shale) [NATIVE]. 1-4' Brown to orange-tan fine SAND, little weathered shale fragments [NATIVE].	T-TP-8 (0-1') @ 0925 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm. T-TP-8 (3-4') @ 0930 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
4 5 6 7 8 9 10		End of Test Pit @ 4 feet [BEDROCK].	

T-TP-8

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1000	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-9	
Reach/Capacity: 15 feet	Total Depth: 4 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 40° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
		0-1' Brown SAND with organics (roots), trace fine gravel [NATIVE].	T-TP-9 (0-1') @ 1020 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
1		1-3.5' Brown to orange –yellow fine SAND, little weathered shale fragments [NATIVE].	
2			
3		3.5-4' Tan to orange-yellow very fine SAND and SILT, moist, [NATIVE].	T-TP-9 (3-4') @ 1025 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
4		End of Test Pit @ 4 feet [BEDROCK].	
5			
6			
7			
8			
9			
10			

T-TP-9

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

TRC Test Pit Log	Project: Little Falls, Maine	Date/Time: 11/7/2012 1045	Sheet 1 of 1
	Contractor Personnel: Rich and Mike	TRC Personnel: Jeffrey Robinson	
Equipment/Contractor Used: McGee Construction/ 320 L CAT	Location: Little Falls, Maine	Test Pit Number: T-TP-10	
Reach/Capacity: 15 feet	Total Depth: 3 feet	Piezometer Installed? NO	
Depth to Ground Water: NA	Weather: 40° Cloudy	Elevation: Top of Pit _____	

Depth	Sample Number	Stratigraphic Description	REMARKS:
1		0-1' Brown fine SAND with organics(roots) [NATIVE].	T-TP-10 (0-1') @ 1050 for PCBs, TAL Metals, EPHs *DUP-2 Headspace: 0.0 ppm.
2		1-3' Red to orange fine SAND [NATIVE].	T-TP-10 (2-3') @ 1055 for PCBs, TAL Metals, EPHs Headspace: 0.0 ppm.
3		End of Test Pit @ 3 feet [BEDROCK].	
4			
5			
6			
7			
8			
9			
10			

T-TP-10

PROPORTIONS USED

Trace (TR).	0 - 10%
Little (LI.)	10 - 20%
Some (SO.)	20 - 35%
And	35 - 50%

GRAIN SIZE

Boulder	>203 mm	>8 in.
Cobble	76 - 203 mm	3 - 8 in.
C. Gravel	19 - 76 mm	3/4 - 3 in.
F. Gravel	4.75 - 19 mm	3/16 - 3/4 in.
C. Sand	2.0 - 4.75 mm	5/64 - 3/16 in.
M. Sand	0.4 - 2.0 mm	1/64 - 5/64 in.
F. Sand	0.075 - 0.4 mm	
Silt	0.002 - 0.075 mm	
Clay	<0.002 mm	

APPENDIX C

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 16, 2012

Charles Springer
TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106

Project Location: Windham, ME
Client Job Number:
Project Number: 191981.000002
Laboratory Work Order Number: 12K0347

Enclosed are results of analyses for samples received by the laboratory on November 9, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 11/16/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-TP-1 (0-1)	12K0347-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-1 (8-10)	12K0347-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-1 (12-13)	12K0347-03	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-2 (0-1)	12K0347-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-2 (3-4)	12K0347-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-3 (0-1)	12K0347-06	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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PURCHASE ORDER NUMBER:

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

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PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-TP-3 (3-5.5)	12K0347-07	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-4 (0-1)	12K0347-08	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-4 (1-3)	12K0347-09	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-4 (4-5)	12K0347-10	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-5 (0-1)	12K0347-11	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-5 (2.5-3.5)	12K0347-12	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-TP-5 (8-9)	12K0347-13	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
DUP-1	12K0347-14	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-6 (0-1)	12K0347-15	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-6 (1-2)	12K0347-16	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-6 (3.5-5)	12K0347-17	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-7 (0-1)	12K0347-18	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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PURCHASE ORDER NUMBER:

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

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FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-TP-7 (2-3)	12K0347-19	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-7 (5-6)	12K0347-20	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-8 (0-1)	12K0347-21	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-8 (3-4)	12K0347-22	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-SWD-1	12K0347-23	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-SWD-2	12K0347-24	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-TP-9 (0-1)	12K0347-25	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-9 (3-4)	12K0347-26	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-10 (0-1)	12K0347-27	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-TP-10 (2-3)	12K0347-28	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-3	12K0347-29	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-2	12K0347-30	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

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PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-Bank-1	12K0347-31	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
DUP-2	12K0347-32	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-1 (0-1)	12K0347-33	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-1 (2-3)	12K0347-34	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-1 (4-5)	12K0347-35	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-2 (0-1)	12K0347-36	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

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PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
H-TP-3 (0-1)	12K0347-37	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-3 (2-4)	12K0347-38	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-3 (4-5)	12K0347-39	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-4 (0-1)	12K0347-40	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
DUP-3	12K0347-41	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-TP-4 (5-6)	12K0347-42	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0347

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PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
H-TP-4 (12-14)	12K0347-43	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
DUP-4	12K0347-44	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-HA-5	12K0347-49	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-HA-9	12K0347-53	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-4	12K0347-55	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, Sb hits for samples 12K0347-04, 06, 11, 14, 18 and 35 were confirmed by method 6020. Be hits for samples 12K0347-11, 14, and 16 were confirmed by method 6020.

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MADEP-EPH-04-1.1

Qualifications:

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Nonane

12K0347-21[T-TP-8 (0-1)], B062789-MS1, B062789-MSD1

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics

12K0347-02[T-TP-1 (8-10)], 12K0347-06[T-TP-3 (0-1)]

SW-846 6010C

Qualifications:

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Beryllium

12K0347-01[T-TP-1 (0-1)], 12K0347-03[T-TP-1 (12-13)], 12K0347-05[T-TP-2 (3-4)], 12K0347-07[T-TP-3 (3-5.5)], 12K0347-08[T-TP-4 (0-1)], 12K0347-10[T-TP-4 (4-5)], 12K0347-12[T-TP-5 (2.5-3.5)], 12K0347-15[T-TP-6 (0-1)], 12K0347-17[T-TP-6 (3.5-5)], 12K0347-20[T-TP-7 (5-6)], 12K0347-21[T-TP-8 (0-1)], 12K0347-22[T-TP-8 (3-4)], 12K0347-27[T-TP-10 (0-1)], 12K0347-28[T-TP-10 (2-3)], 12K0347-30[T-Bank-2], 12K0347-31[T-Bank-1], 12K0347-32[DUP-2], 12K0347-33[H-TP-1 (0-1)], 12K0347-34[H-TP-1 (2-3)], 12K0347-36[H-TP-2 (0-1)], 12K0347-37[H-TP-3 (0-1)], 12K0347-39[H-TP-3 (4-5)], 12K0347-43[H-TP-4 (12-14)], 12K0347-44[DUP-4], 12K0347-49[T-HA-5], B062582-DUP1, B062583-DUP1, B062584-DUP1

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony, Barium, Manganese, Selenium

12K0347-01[T-TP-1 (0-1)], 12K0347-17[T-TP-6 (3.5-5)], 12K0347-31[T-Bank-1], B062582-MS1, B062583-MS1, B062584-MS1

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Barium

12K0347-01[T-TP-1 (0-1)], B062584-MS1

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Samples(s) Qualified:

Sodium

12K0347-01[T-TP-1 (0-1)], B062584-MS1

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium

12K0347-01[T-TP-1 (0-1)], 12K0347-17[T-TP-6 (3.5-5)], 12K0347-31[T-Bank-1], B062582-MS1, B062583-MS1, B062584-MS1

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Iron, Potassium

12K0347-01[T-TP-1 (0-1)], B062584-DUP1, 12K0347-31[T-Bank-1], B062582-DUP1

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B062673-MSD1, B062673-MS1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B062676-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C]

12K0347-41[DUP-3]

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016

12K0347-21[T-TP-8 (0-1)], 12K0347-22[T-TP-8 (3-4)], 12K0347-23[T-SWD-1], 12K0347-24[T-SWD-2], 12K0347-25[T-TP-9 (0-1)], 12K0347-26[T-TP-9 (3-4)], 12K0347-27[T-TP-10 (0-1)], 12K0347-28[T-TP-10 (2-3)], 12K0347-29[T-Bank-3], 12K0347-30[T-Bank-2], 12K0347-31[T-Bank-1], 12K0347-32[DUP-2], 12K0347-33[H-TP-1 (0-1)], 12K0347-34[H-TP-1 (2-3)], 12K0347-35[H-TP-1 (4-5)], 12K0347-36[H-TP-2 (0-1)], 12K0347-37[H-TP-3 (0-1)], 12K0347-38[H-TP-3 (2-4)], 12K0347-39[H-TP-3 (4-5)], 12K0347-40[H-TP-4 (0-1)], B062675-BLK1, B062675-BS1, B062675-BSD1, B062675-MS1, B062675-MSD1

Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]

12K0347-09[T-TP-4 (1-3)]

Continuing calibration verification was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

Analyte & Samples(s) Qualified:

Aroclor-1016

B062675-BS1, B062675-BSD1, B062675-MS1, B062675-MSD1

SW-846 9014

Qualifications:

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Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Cyanide

B062653-BSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (0-1) | Sampled: 11/6/2012 10:00

Sample ID: 12K0347-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1254 [2]	0.18	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 15:29	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.7	30-150		11/14/12 15:29
Decachlorobiphenyl [2]	89.8	30-150		11/14/12 15:29
Tetrachloro-m-xylene [1]	70.7	30-150		11/14/12 15:29
Tetrachloro-m-xylene [2]	84.4	30-150		11/14/12 15:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (0-1) | Sampled: 11/6/2012 10:00

Sample ID: 12K0347-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Fluoranthene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS
Pyrene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/14/12 23:44	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.5	40-140		11/14/12 23:44
o-Terphenyl (OTP)	83.2	40-140		11/14/12 23:44
2-Bromonaphthalene	93.6	40-140		11/14/12 23:44
2-Fluorobiphenyl	111	40-140		11/14/12 23:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (0-1) | Sampled: 11/6/2012 10:00

Sample ID: 12K0347-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	2.8	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Antimony	ND	2.8	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Barium	110	2.8	mg/Kg dry	1	MS-11	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Beryllium	ND	0.55	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/14/12 17:13	OP
Cadmium	0.45	0.28	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Calcium	1900	8.3	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Chromium	61	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Cobalt	11	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Copper	40	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 12:49	OP
Iron	44000	28	mg/Kg dry	10	MS-19, R-02	SW-846 6010C	11/10/12	11/14/12 11:31	OP
Lead	22	0.84	mg/Kg dry	1		SW-846 6010C	11/13/12	11/14/12 10:11	OP
Magnesium	6600	8.3	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Manganese	560	0.55	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/13/12 12:49	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:39	SAJ
Nickel	35	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Potassium	6200	110	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Selenium	ND	5.5	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Sodium	ND	110	mg/Kg dry	1	MS-14	SW-846 6010C	11/10/12	11/12/12 22:14	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP
Vanadium	48	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 12:49	OP
Zinc	51	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:14	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (0-1)
Sampled: 11/6/2012 10:00

Sample ID: 12K0347-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.43	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	89.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (8-10)
Sampled: 11/6/2012 10:10

Sample ID: 12K0347-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 10:39	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		11/15/12 10:39
Decachlorobiphenyl [2]	92.2	30-150		11/15/12 10:39
Tetrachloro-m-xylene [1]	81.4	30-150		11/15/12 10:39
Tetrachloro-m-xylene [2]	82.2	30-150		11/15/12 10:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (8-10) | Sampled: 11/6/2012 10:10

Sample ID: 12K0347-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	68	mg/Kg dry	5	RL-05	MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
C19-C36 Aliphatics	220	68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Unadjusted C11-C22 Aromatics	340	68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
C11-C22 Aromatics	280	68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Acenaphthene	ND	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Acenaphthylene	ND	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Anthracene	1.7	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Benzo(a)anthracene	5.1	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Benzo(a)pyrene	5.3	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Benzo(b)fluoranthene	6.3	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Benzo(g,h,i)perylene	3.2	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Benzo(k)fluoranthene	2.3	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Chrysene	5.2	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Dibenz(a,h)anthracene	1.0	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Fluoranthene	11	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Fluorene	ND	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Indeno(1,2,3-cd)pyrene	3.8	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
2-Methylnaphthalene	ND	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Naphthalene	ND	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Phenanthrene	6.7	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS
Pyrene	10	0.68	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.7	40-140		11/15/12 2:51
o-Terphenyl (OTP)	68.2	40-140		11/15/12 2:51
2-Bromonaphthalene	74.5	40-140		11/15/12 2:51
2-Fluorobiphenyl	86.0	40-140		11/15/12 2:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (8-10) | Sampled: 11/6/2012 10:10

Sample ID: 12K0347-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9600	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Arsenic	36	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Barium	170	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Cadmium	3.5	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Calcium	22000	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Chromium	110	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Cobalt	11	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Copper	89	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:09	OP
Iron	55000	34	mg/Kg dry	10		SW-846 6010C	11/10/12	11/14/12 12:15	OP
Lead	200	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Magnesium	3600	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Manganese	420	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:09	OP
Mercury	2.6	0.34	mg/Kg dry	10		SW-846 7471B	11/12/12	11/13/12 14:14	SAJ
Nickel	21	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Potassium	2700	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Sodium	170	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP
Vanadium	29	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:09	OP
Zinc	540	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 22:35	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (8-10)
Sampled: 11/6/2012 10:10

Sample ID: 12K0347-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	2.8	0.54	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	72.4		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (12-13)
Sampled: 11/6/2012 10:25

Sample ID: 12K0347-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1254 [2]	0.11	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.2	30-150		11/14/12 16:46
Decachlorobiphenyl [2]	85.5	30-150		11/14/12 16:46
Tetrachloro-m-xylene [1]	69.5	30-150		11/14/12 16:46
Tetrachloro-m-xylene [2]	85.2	30-150		11/14/12 16:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (12-13) | Sampled: 11/6/2012 10:25

Sample ID: 12K0347-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.1	40-140		11/15/12 0:05
o-Terphenyl (OTP)	74.8	40-140		11/15/12 0:05
2-Bromonaphthalene	79.4	40-140		11/15/12 0:05
2-Fluorobiphenyl	90.5	40-140		11/15/12 0:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (12-13) | Sampled: 11/6/2012 10:25

Sample ID: 12K0347-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Arsenic	3.5	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Barium	120	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Beryllium	ND	0.55	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/14/12 17:44	OP
Cadmium	0.40	0.28	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Calcium	4700	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Chromium	48	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Cobalt	11	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Copper	22	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:13	OP
Iron	19000	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:13	OP
Lead	23	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Magnesium	7400	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Manganese	330	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:13	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:43	SAJ
Nickel	28	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Potassium	6400	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Sodium	160	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP
Vanadium	45	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 13:13	OP
Zinc	60	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:00	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-1 (12-13)
Sampled: 11/6/2012 10:25

Sample ID: 12K0347-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.35	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	87.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (0-1)
Sampled: 11/6/2012 11:25

Sample ID: 12K0347-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.0	30-150		11/14/12 16:59
Decachlorobiphenyl [2]	87.6	30-150		11/14/12 16:59
Tetrachloro-m-xylene [1]	72.4	30-150		11/14/12 16:59
Tetrachloro-m-xylene [2]	85.1	30-150		11/14/12 16:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (0-1) | Sampled: 11/6/2012 11:25

Sample ID: 12K0347-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
C19-C36 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Unadjusted C11-C22 Aromatics	15	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
C11-C22 Aromatics	15	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Phenanthrene	0.13	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	50.7	40-140		11/15/12 0:25
o-Terphenyl (OTP)	54.0	40-140		11/15/12 0:25
2-Bromonaphthalene	76.9	40-140		11/15/12 0:25
2-Fluorobiphenyl	89.4	40-140		11/15/12 0:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (0-1) | Sampled: 11/6/2012 11:25

Sample ID: 12K0347-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Antimony	25	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Arsenic	12	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Barium	130	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Cadmium	0.81	0.32	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Calcium	2400	9.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Chromium	54	0.64	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Cobalt	13	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Copper	260	0.64	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Iron	31000	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Lead	1000	0.97	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Magnesium	6400	9.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Manganese	370	0.64	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Mercury	0.41	0.032	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:44	SAJ
Nickel	39	0.64	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Potassium	3100	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Sodium	150	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP
Vanadium	59	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Zinc	170	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:04	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (0-1)
Sampled: 11/6/2012 11:25

Sample ID: 12K0347-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.58	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	77.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (3-4) | Sampled: 11/6/2012 11:35

Sample ID: 12K0347-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:12	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.0	30-150		11/14/12 17:12
Decachlorobiphenyl [2]	87.3	30-150		11/14/12 17:12
Tetrachloro-m-xylene [1]	74.5	30-150		11/14/12 17:12
Tetrachloro-m-xylene [2]	90.7	30-150		11/14/12 17:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (3-4) | Sampled: 11/6/2012 11:35

Sample ID: 12K0347-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 0:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	47.8	40-140		11/15/12 0:46
o-Terphenyl (OTP)	47.3	40-140		11/15/12 0:46
2-Bromonaphthalene	74.7	40-140		11/15/12 0:46
2-Fluorobiphenyl	86.7	40-140		11/15/12 0:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (3-4) | Sampled: 11/6/2012 11:35

Sample ID: 12K0347-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	26000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Arsenic	6.7	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Barium	160	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Beryllium	ND	0.61	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/14/12 17:49	OP
Cadmium	0.98	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Calcium	1900	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Chromium	100	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Cobalt	15	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Copper	65	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Iron	32000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Lead	69	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Magnesium	9200	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Manganese	350	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Mercury	0.42	0.031	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:46	SAJ
Nickel	43	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Potassium	3600	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP
Vanadium	72	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Zinc	290	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:09	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-2 (3-4)
Sampled: 11/6/2012 11:35

Sample ID: 12K0347-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.54	0.52	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	80.8		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (0-1)
Sampled: 11/6/2012 13:00

Sample ID: 12K0347-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.6	30-150		11/14/12 17:24
Decachlorobiphenyl [2]	87.0	30-150		11/14/12 17:24
Tetrachloro-m-xylene [1]	73.5	30-150		11/14/12 17:24
Tetrachloro-m-xylene [2]	84.2	30-150		11/14/12 17:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (0-1) | Sampled: 11/6/2012 13:00

Sample ID: 12K0347-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	69	mg/Kg dry	5	RL-05	MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
C19-C36 Aliphatics	640	69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Unadjusted C11-C22 Aromatics	130	69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
C11-C22 Aromatics	130	69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Acenaphthene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Acenaphthylene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Anthracene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Benzo(a)anthracene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Benzo(a)pyrene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Benzo(b)fluoranthene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Benzo(g,h,i)perylene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Benzo(k)fluoranthene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Chrysene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Dibenz(a,h)anthracene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Fluoranthene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Fluorene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Indeno(1,2,3-cd)pyrene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
2-Methylnaphthalene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Naphthalene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Phenanthrene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS
Pyrene	ND	0.69	mg/Kg dry	5		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	73.0	40-140		11/15/12 1:07
o-Terphenyl (OTP)	75.0	40-140		11/15/12 1:07
2-Bromonaphthalene	76.9	40-140		11/15/12 1:07
2-Fluorobiphenyl	88.7	40-140		11/15/12 1:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (0-1) | Sampled: 11/6/2012 13:00

Sample ID: 12K0347-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3000	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Antimony	8.4	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Arsenic	17	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Barium	320	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Cadmium	2.3	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Calcium	3300	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Chromium	45	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Cobalt	5.1	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Copper	330	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:23	OP
Iron	21000	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:23	OP
Lead	990	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Magnesium	530	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Manganese	140	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:23	OP
Mercury	8.7	0.69	mg/Kg dry	20		SW-846 7471B	11/12/12	11/13/12 14:16	SAJ
Nickel	12	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Potassium	350	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Silver	2.0	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP
Vanadium	24	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:23	OP
Zinc	630	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:13	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (0-1)
Sampled: 11/6/2012 13:00

Sample ID: 12K0347-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	5.6	0.50	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	71.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (3-5.5)
Sampled: 11/6/2012 13:15

Sample ID: 12K0347-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:37	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.9	30-150		11/14/12 17:37
Decachlorobiphenyl [2]	92.7	30-150		11/14/12 17:37
Tetrachloro-m-xylene [1]	72.9	30-150		11/14/12 17:37
Tetrachloro-m-xylene [2]	87.4	30-150		11/14/12 17:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (3-5.5) | Sampled: 11/6/2012 13:15

Sample ID: 12K0347-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
C19-C36 Aliphatics	13	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.8	40-140		11/15/12 1:28
o-Terphenyl (OTP)	62.6	40-140		11/15/12 1:28
2-Bromonaphthalene	79.2	40-140		11/15/12 1:28
2-Fluorobiphenyl	89.2	40-140		11/15/12 1:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (3-5.5) | Sampled: 11/6/2012 13:15

Sample ID: 12K0347-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	30000	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Arsenic	2.7	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Barium	210	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	11/10/12	11/14/12 17:59	OP
Cadmium	0.64	0.27	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Calcium	1900	8.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Chromium	97	0.54	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Cobalt	19	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Copper	70	0.54	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Iron	27000	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Lead	53	0.81	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Magnesium	14000	8.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Manganese	380	0.54	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Mercury	0.43	0.027	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:49	SAJ
Nickel	55	0.54	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Potassium	11000	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Sodium	210	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP
Vanadium	77	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Zinc	160	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:19	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-3 (3-5.5)
Sampled: 11/6/2012 13:15

Sample ID: 12K0347-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.5	0.55	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	91.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (0-1) | Sampled: 11/6/2012 13:45

Sample ID: 12K0347-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1254 [2]	0.22	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.6	30-150		11/14/12 17:50
Decachlorobiphenyl [2]	90.0	30-150		11/14/12 17:50
Tetrachloro-m-xylene [1]	72.9	30-150		11/14/12 17:50
Tetrachloro-m-xylene [2]	86.7	30-150		11/14/12 17:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (0-1) | Sampled: 11/6/2012 13:45

Sample ID: 12K0347-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Unadjusted C11-C22 Aromatics	44	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
C11-C22 Aromatics	31	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Anthracene	0.33	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Benzo(a)anthracene	1.0	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Benzo(a)pyrene	0.96	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Benzo(b)fluoranthene	1.3	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Benzo(g,h,i)perylene	0.61	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Benzo(k)fluoranthene	0.46	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Chrysene	1.1	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Dibenz(a,h)anthracene	0.18	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Fluoranthene	2.7	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Indeno(1,2,3-cd)pyrene	0.75	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Phenanthrene	1.6	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS
Pyrene	2.4	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 1:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	57.5	40-140		11/15/12 1:49
o-Terphenyl (OTP)	58.5	40-140		11/15/12 1:49
2-Bromonaphthalene	70.8	40-140		11/15/12 1:49
2-Fluorobiphenyl	81.9	40-140		11/15/12 1:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (0-1) | Sampled: 11/6/2012 13:45

Sample ID: 12K0347-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	28000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Barium	300	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Beryllium	ND	1.5	mg/Kg dry	5	DL-04	SW-846 6010C	11/10/12	11/14/12 18:04	OP
Cadmium	0.75	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Calcium	5300	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Chromium	100	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Cobalt	16	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Copper	78	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:33	OP
Iron	29000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:33	OP
Lead	280	0.91	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Magnesium	13000	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Manganese	430	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:33	OP
Mercury	0.40	0.030	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:51	SAJ
Nickel	43	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Potassium	9300	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Sodium	310	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP
Vanadium	89	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:33	OP
Zinc	190	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:23	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (0-1)
Sampled: 11/6/2012 13:45

Sample ID: 12K0347-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.7	0.46	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	80.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (1-3) | Sampled: 11/6/2012 14:00

Sample ID: 12K0347-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:28	MJC

Surrogates	% Recovery		Recovery Limits	Flag	
Decachlorobiphenyl [1]	149		30-150		11/14/12 18:28
Decachlorobiphenyl [2]	**160**	*	30-150	S-17	11/14/12 18:28
Tetrachloro-m-xylene [1]	69.6		30-150		11/14/12 18:28
Tetrachloro-m-xylene [2]	82.7		30-150		11/14/12 18:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (1-3) | Sampled: 11/6/2012 14:00

Sample ID: 12K0347-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
C19-C36 Aliphatics	15	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Unadjusted C11-C22 Aromatics	27	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
C11-C22 Aromatics	26	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Chrysene	0.18	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Fluoranthene	0.20	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
2-Methylnaphthalene	0.14	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Phenanthrene	0.29	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS
Pyrene	0.22	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 10:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	46.1	40-140		11/15/12 10:25
o-Terphenyl (OTP)	50.1	40-140		11/15/12 10:25
2-Bromonaphthalene	101	40-140		11/15/12 10:25
2-Fluorobiphenyl	113	40-140		11/15/12 10:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (1-3) | Sampled: 11/6/2012 14:00

Sample ID: 12K0347-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Arsenic	7.6	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Barium	300	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Cadmium	0.94	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Calcium	3000	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Chromium	44	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Cobalt	12	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Copper	100	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:37	OP
Iron	29000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:37	OP
Lead	480	0.91	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Magnesium	4300	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Manganese	330	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:37	OP
Mercury	0.93	0.15	mg/Kg dry	5		SW-846 7471B	11/12/12	11/13/12 14:18	SAJ
Nickel	33	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Potassium	2600	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP
Vanadium	44	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:37	OP
Zinc	300	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (1-3)
Sampled: 11/6/2012 14:00

Sample ID: 12K0347-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	3.4	0.47	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	81.7		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (4-5) | Sampled: 11/6/2012 14:15

Sample ID: 12K0347-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:41	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.1	30-150		11/14/12 18:41
Decachlorobiphenyl [2]	92.5	30-150		11/14/12 18:41
Tetrachloro-m-xylene [1]	74.7	30-150		11/14/12 18:41
Tetrachloro-m-xylene [2]	89.0	30-150		11/14/12 18:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (4-5) | Sampled: 11/6/2012 14:15

Sample ID: 12K0347-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 2:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.9	40-140		11/15/12 2:30
o-Terphenyl (OTP)	80.1	40-140		11/15/12 2:30
2-Bromonaphthalene	87.0	40-140		11/15/12 2:30
2-Fluorobiphenyl	101	40-140		11/15/12 2:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (4-5) | Sampled: 11/6/2012 14:15

Sample ID: 12K0347-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	29000	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Arsenic	26	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Barium	190	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Beryllium	ND	0.55	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/14/12 17:54	OP
Cadmium	0.64	0.28	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Calcium	2300	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Chromium	85	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Cobalt	17	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Copper	40	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:42	OP
Iron	27000	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:42	OP
Lead	46	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Magnesium	13000	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Manganese	310	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:42	OP
Mercury	0.12	0.028	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:54	SAJ
Nickel	50	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Potassium	9100	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Sodium	190	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP
Vanadium	73	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:42	OP
Zinc	82	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 23:32	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-4 (4-5)
Sampled: 11/6/2012 14:15

Sample ID: 12K0347-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.50	0.41	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	87.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (0-1)
Sampled: 11/6/2012 14:40

Sample ID: 12K0347-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:54	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.9	30-150		11/14/12 18:54
Decachlorobiphenyl [2]	91.8	30-150		11/14/12 18:54
Tetrachloro-m-xylene [1]	70.7	30-150		11/14/12 18:54
Tetrachloro-m-xylene [2]	82.9	30-150		11/14/12 18:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (0-1) | Sampled: 11/6/2012 14:40

Sample ID: 12K0347-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
C19-C36 Aliphatics	65	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Unadjusted C11-C22 Aromatics	39	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
C11-C22 Aromatics	39	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Phenanthrene	0.15	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:09	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.8	40-140		11/15/12 12:09
o-Terphenyl (OTP)	66.5	40-140		11/15/12 12:09
2-Bromonaphthalene	76.5	40-140		11/15/12 12:09
2-Fluorobiphenyl	86.3	40-140		11/15/12 12:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (0-1) | Sampled: 11/6/2012 14:40

Sample ID: 12K0347-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Antimony	4.9	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Arsenic	6.2	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Barium	290	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Beryllium	0.41	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Cadmium	3.9	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Calcium	2700	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Chromium	44	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Cobalt	5.5	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Copper	250	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:32	OP
Iron	9500	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:32	OP
Lead	590	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Magnesium	540	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Manganese	120	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:32	OP
Mercury	0.67	0.061	mg/Kg dry	2		SW-846 7471B	11/12/12	11/13/12 14:24	SAJ
Nickel	9.8	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Potassium	190	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP
Vanadium	13	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:32	OP
Zinc	560	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:49	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (0-1)
Sampled: 11/6/2012 14:40

Sample ID: 12K0347-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	7.6	0.58	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	79.3		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (2.5-3.5)
Sampled: 11/6/2012 14:50

Sample ID: 12K0347-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		11/15/12 20:42
Decachlorobiphenyl [2]	83.2	30-150		11/15/12 20:42
Tetrachloro-m-xylene [1]	85.0	30-150		11/15/12 20:42
Tetrachloro-m-xylene [2]	89.0	30-150		11/15/12 20:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (2.5-3.5) | Sampled: 11/6/2012 14:50

Sample ID: 12K0347-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 13:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	40.2	40-140		11/16/12 13:18
o-Terphenyl (OTP)	44.7	40-140		11/16/12 13:18
2-Bromonaphthalene	84.8	40-140		11/16/12 13:18
2-Fluorobiphenyl	94.8	40-140		11/16/12 13:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (2.5-3.5) | Sampled: 11/6/2012 14:50

Sample ID: 12K0347-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	24000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Arsenic	24	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Barium	170	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Beryllium	ND	0.60	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:11	OP
Cadmium	3.3	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Calcium	1600	9.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Chromium	67	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Cobalt	12	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Copper	97	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:53	OP
Iron	22000	6.0	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:11	OP
Lead	25	0.90	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Magnesium	6400	9.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Manganese	460	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:53	OP
Mercury	0.15	0.030	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 14:04	SAJ
Nickel	51	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Potassium	1500	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP
Vanadium	49	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:53	OP
Zinc	1300	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:13	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (2.5-3.5)
Sampled: 11/6/2012 14:50

Sample ID: 12K0347-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.49	0.47	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	81.4		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (8-9) | Sampled: 11/6/2012 15:00

Sample ID: 12K0347-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:07	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.1	30-150		11/14/12 19:07
Decachlorobiphenyl [2]	92.7	30-150		11/14/12 19:07
Tetrachloro-m-xylene [1]	73.5	30-150		11/14/12 19:07
Tetrachloro-m-xylene [2]	87.4	30-150		11/14/12 19:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347
Date Received: 11/9/2012
Field Sample #: T-TP-5 (8-9)
Sampled: 11/6/2012 15:00
Sample ID: 12K0347-13
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 12:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	80.5	40-140		11/15/12 12:51
o-Terphenyl (OTP)	82.2	40-140		11/15/12 12:51
2-Bromonaphthalene	80.6	40-140		11/15/12 12:51
2-Fluorobiphenyl	90.2	40-140		11/15/12 12:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (8-9) | Sampled: 11/6/2012 15:00

Sample ID: 12K0347-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Arsenic	57	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Barium	100	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Beryllium	ND	0.27	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Cadmium	0.74	0.27	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Calcium	1200	8.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Chromium	42	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Cobalt	12	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Copper	22	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:57	OP
Iron	15000	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:57	OP
Lead	5.7	0.82	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Magnesium	6100	8.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Manganese	280	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:57	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 14:06	SAJ
Nickel	41	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Potassium	3800	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Sodium	110	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP
Vanadium	31	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:57	OP
Zinc	30	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:17	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-5 (8-9)
Sampled: 11/6/2012 15:00

Sample ID: 12K0347-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.35	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	88.2		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-1
Sampled: 11/6/2012 00:00

Sample ID: 12K0347-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:20	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.3	30-150		11/14/12 19:20
Decachlorobiphenyl [2]	86.3	30-150		11/14/12 19:20
Tetrachloro-m-xylene [1]	67.6	30-150		11/14/12 19:20
Tetrachloro-m-xylene [2]	79.9	30-150		11/14/12 19:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-1 | Sampled: 11/6/2012 00:00

Sample ID: 12K0347-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	46	26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
C19-C36 Aliphatics	590	130	mg/Kg dry	5		MADEP-EPH-04-1.1	11/15/12	11/16/12 13:52	SCS
Unadjusted C11-C22 Aromatics	300	26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
C11-C22 Aromatics	300	26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Acenaphthene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Acenaphthylene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Anthracene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Benzo(a)anthracene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Benzo(a)pyrene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Benzo(b)fluoranthene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Benzo(g,h,i)perylene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Benzo(k)fluoranthene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Chrysene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Dibenz(a,h)anthracene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Fluoranthene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Fluorene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
2-Methylnaphthalene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Naphthalene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Phenanthrene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS
Pyrene	ND	0.26	mg/Kg dry	1		MADEP-EPH-04-1.1	11/15/12	11/16/12 12:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	62.8	40-140		11/16/12 12:36
o-Terphenyl (OTP)	69.9	40-140		11/16/12 12:36
2-Bromonaphthalene	82.5	40-140		11/16/12 12:36
2-Fluorobiphenyl	95.2	40-140		11/16/12 12:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-1 | Sampled: 11/6/2012 00:00

Sample ID: 12K0347-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4200	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Antimony	27	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Arsenic	17	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Barium	410	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Beryllium	0.43	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Cadmium	3.2	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Calcium	3200	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Chromium	62	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Cobalt	5.7	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Copper	420	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:02	OP
Iron	15000	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:02	OP
Lead	1300	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Magnesium	660	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Manganese	140	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:02	OP
Mercury	1.5	0.17	mg/Kg dry	5		SW-846 7471B	11/12/12	11/13/12 14:26	SAJ
Nickel	13	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Potassium	250	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Sodium	160	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP
Vanadium	16	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:02	OP
Zinc	540	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:22	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-1
Sampled: 11/6/2012 00:00

Sample ID: 12K0347-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	8.6	0.63	mg/Kg dry	1		SW-846 9014	11/11/12	11/11/12 12:45	VAK
% Solids	74.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (0-1)
Sampled: 11/7/2012 07:45

Sample ID: 12K0347-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 20:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		11/15/12 20:55
Decachlorobiphenyl [2]	85.2	30-150		11/15/12 20:55
Tetrachloro-m-xylene [1]	87.1	30-150		11/15/12 20:55
Tetrachloro-m-xylene [2]	91.5	30-150		11/15/12 20:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (0-1) | Sampled: 11/7/2012 07:45

Sample ID: 12K0347-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.8	40-140		11/15/12 13:33
o-Terphenyl (OTP)	73.8	40-140		11/15/12 13:33
2-Bromonaphthalene	81.0	40-140		11/15/12 13:33
2-Fluorobiphenyl	90.9	40-140		11/15/12 13:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (0-1) | Sampled: 11/7/2012 07:45

Sample ID: 12K0347-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	26000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Arsenic	6.7	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Barium	200	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Beryllium	ND	0.61	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:16	OP
Cadmium	0.55	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Calcium	1900	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Chromium	88	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Cobalt	16	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Copper	47	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:07	OP
Iron	27000	6.1	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:16	OP
Lead	78	0.91	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Magnesium	12000	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Manganese	420	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:07	OP
Mercury	0.19	0.031	mg/Kg dry	1		SW-846 7471B	11/14/12	11/15/12 13:09	SAJ
Nickel	42	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Potassium	8800	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Sodium	160	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP
Vanadium	69	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:07	OP
Zinc	110	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (0-1)
Sampled: 11/7/2012 07:45

Sample ID: 12K0347-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.62	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	80.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (1-2) | Sampled: 11/7/2012 07:55

Sample ID: 12K0347-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:32	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.7	30-150		11/14/12 19:32
Decachlorobiphenyl [2]	94.2	30-150		11/14/12 19:32
Tetrachloro-m-xylene [1]	74.7	30-150		11/14/12 19:32
Tetrachloro-m-xylene [2]	89.0	30-150		11/14/12 19:32

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (1-2) | Sampled: 11/7/2012 07:55

Sample ID: 12K0347-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Unadjusted C11-C22 Aromatics	25	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
C11-C22 Aromatics	25	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Phenanthrene	0.19	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 13:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.3	40-140		11/15/12 13:54
o-Terphenyl (OTP)	62.8	40-140		11/15/12 13:54
2-Bromonaphthalene	83.9	40-140		11/15/12 13:54
2-Fluorobiphenyl	95.1	40-140		11/15/12 13:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (1-2) | Sampled: 11/7/2012 07:55

Sample ID: 12K0347-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7600	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Arsenic	12	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Barium	250	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Beryllium	0.57	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Cadmium	0.46	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Calcium	7900	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Chromium	20	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Cobalt	8.0	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Copper	73	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:12	OP
Iron	8800	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:12	OP
Lead	130	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Magnesium	1700	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Manganese	86	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:12	OP
Mercury	0.26	0.031	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 14:11	SAJ
Nickel	15	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Potassium	910	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Sodium	250	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP
Vanadium	19	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:12	OP
Zinc	55	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:31	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (1-2)
Sampled: 11/7/2012 07:55

Sample ID: 12K0347-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.57	0.46	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	80.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (3.5-5) | Sampled: 11/7/2012 08:00

Sample ID: 12K0347-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:45	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.5	30-150		11/14/12 19:45
Decachlorobiphenyl [2]	101	30-150		11/14/12 19:45
Tetrachloro-m-xylene [1]	80.6	30-150		11/14/12 19:45
Tetrachloro-m-xylene [2]	96.3	30-150		11/14/12 19:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347
Date Received: 11/9/2012
Field Sample #: T-TP-6 (3.5-5)
Sampled: 11/7/2012 08:00
Sample ID: 12K0347-17
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:16	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	47.4	40-140		11/15/12 14:16
o-Terphenyl (OTP)	50.5	40-140		11/15/12 14:16
2-Bromonaphthalene	83.6	40-140		11/15/12 14:16
2-Fluorobiphenyl	94.3	40-140		11/15/12 14:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (3.5-5) | Sampled: 11/7/2012 08:00

Sample ID: 12K0347-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	31000	2.8	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Antimony	ND	2.8	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Barium	220	2.8	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	11/10/12	11/13/12 17:02	OP
Cadmium	0.59	0.28	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Calcium	2000	8.4	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Chromium	130	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Cobalt	18	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Copper	63	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:09	OP
Iron	33000	14	mg/Kg dry	5	MS-19	SW-846 6010C	11/10/12	11/13/12 17:02	OP
Lead	46	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Magnesium	15000	8.4	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Manganese	400	0.56	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/13/12 14:09	OP
Mercury	0.54	0.056	mg/Kg dry	2		SW-846 7471B	11/13/12	11/14/12 13:56	SAJ
Nickel	57	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Potassium	9700	110	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 17:28	OP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Sodium	ND	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP
Vanadium	84	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 14:09	OP
Zinc	180	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:28	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-6 (3.5-5)
Sampled: 11/7/2012 08:00

Sample ID: 12K0347-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.39	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	88.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (0-1) | Sampled: 11/7/2012 08:45

Sample ID: 12K0347-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1254 [2]	1.6	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/13/12	11/15/12 21:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		11/15/12 21:08
Decachlorobiphenyl [2]	87.4	30-150		11/15/12 21:08
Tetrachloro-m-xylene [1]	86.5	30-150		11/15/12 21:08
Tetrachloro-m-xylene [2]	90.2	30-150		11/15/12 21:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (0-1) | Sampled: 11/7/2012 08:45

Sample ID: 12K0347-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
C19-C36 Aliphatics	150	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Unadjusted C11-C22 Aromatics	81	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
C11-C22 Aromatics	76	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Acenaphthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Acenaphthylene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Benzo(a)anthracene	0.36	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Benzo(a)pyrene	0.33	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Benzo(b)fluoranthene	0.50	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Benzo(g,h,i)perylene	0.25	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Benzo(k)fluoranthene	0.18	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Chrysene	0.46	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Dibenz(a,h)anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Fluoranthene	0.86	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Fluorene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Indeno(1,2,3-cd)pyrene	0.32	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
2-Methylnaphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Naphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Phenanthrene	0.53	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS
Pyrene	0.89	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	56.9	40-140		11/16/12 14:13
o-Terphenyl (OTP)	66.4	40-140		11/16/12 14:13
2-Bromonaphthalene	76.8	40-140		11/16/12 14:13
2-Fluorobiphenyl	87.1	40-140		11/16/12 14:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (0-1) | Sampled: 11/7/2012 08:45

Sample ID: 12K0347-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3900	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Antimony	37	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Arsenic	7.7	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Barium	750	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Beryllium	ND	0.37	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Cadmium	2.2	0.37	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Calcium	1800	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Chromium	88	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Cobalt	5.3	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Copper	1700	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:16	OP
Iron	31000	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:16	OP
Lead	2800	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Magnesium	1100	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Manganese	430	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:16	OP
Mercury	6.2	0.79	mg/Kg dry	20		SW-846 7471B	11/13/12	11/14/12 13:58	SAJ
Nickel	11	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Potassium	330	150	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Selenium	ND	7.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Silver	2.3	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Sodium	ND	150	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Thallium	ND	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP
Vanadium	17	1.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:16	OP
Zinc	590	1.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:36	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (0-1)
Sampled: 11/7/2012 08:45

Sample ID: 12K0347-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	9.8	0.62	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	62.1		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (2-3) | Sampled: 11/7/2012 08:50

Sample ID: 12K0347-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:58	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.7	30-150		11/14/12 19:58
Decachlorobiphenyl [2]	93.8	30-150		11/14/12 19:58
Tetrachloro-m-xylene [1]	78.5	30-150		11/14/12 19:58
Tetrachloro-m-xylene [2]	93.6	30-150		11/14/12 19:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (2-3) | Sampled: 11/7/2012 08:50

Sample ID: 12K0347-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
C19-C36 Aliphatics	91	19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Unadjusted C11-C22 Aromatics	52	19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
C11-C22 Aromatics	52	19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Acenaphthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Acenaphthylene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Chrysene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Fluorene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Naphthalene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Phenanthrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS
Pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	11/16/12	11/16/12 14:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.6	40-140		11/16/12 14:33
o-Terphenyl (OTP)	67.1	40-140		11/16/12 14:33
2-Bromonaphthalene	87.6	40-140		11/16/12 14:33
2-Fluorobiphenyl	97.3	40-140		11/16/12 14:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (2-3) | Sampled: 11/7/2012 08:50

Sample ID: 12K0347-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3700	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Antimony	ND	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Arsenic	9.8	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Barium	670	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Beryllium	ND	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Cadmium	5.1	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Calcium	2000	14	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Chromium	77	0.96	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Cobalt	10	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Copper	1700	0.96	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:22	OP
Iron	73000	48	mg/Kg dry	10		SW-846 6010C	11/10/12	11/14/12 16:46	OP
Lead	5000	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Magnesium	470	14	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Manganese	860	0.96	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:22	OP
Mercury	6.4	0.49	mg/Kg dry	10		SW-846 7471B	11/13/12	11/14/12 14:00	SAJ
Nickel	24	0.96	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Potassium	200	190	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Selenium	ND	9.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Silver	2.9	0.96	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Sodium	ND	190	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Thallium	ND	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP
Vanadium	59	1.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:22	OP
Zinc	1500	1.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:42	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (2-3)
Sampled: 11/7/2012 08:50

Sample ID: 12K0347-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	7.5	0.77	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	51.6		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (5-6) | Sampled: 11/7/2012 09:00

Sample ID: 12K0347-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:11	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.5	30-150		11/14/12 20:11
Decachlorobiphenyl [2]	92.7	30-150		11/14/12 20:11
Tetrachloro-m-xylene [1]	74.4	30-150		11/14/12 20:11
Tetrachloro-m-xylene [2]	89.5	30-150		11/14/12 20:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (5-6) | Sampled: 11/7/2012 09:00

Sample ID: 12K0347-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
C19-C36 Aliphatics	23	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Unadjusted C11-C22 Aromatics	19	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
C11-C22 Aromatics	17	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Benzo(a)anthracene	0.22	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Benzo(a)pyrene	0.31	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Benzo(b)fluoranthene	0.30	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Benzo(g,h,i)perylene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Chrysene	0.23	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Fluoranthene	0.43	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Indeno(1,2,3-cd)pyrene	0.13	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS
Pyrene	0.50	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.0	40-140		11/15/12 14:20
o-Terphenyl (OTP)	47.9	40-140		11/15/12 14:20
2-Bromonaphthalene	80.2	40-140		11/15/12 14:20
2-Fluorobiphenyl	87.7	40-140		11/15/12 14:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (5-6) | Sampled: 11/7/2012 09:00

Sample ID: 12K0347-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	26000	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Arsenic	26	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Barium	160	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Beryllium	ND	0.58	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:21	OP
Cadmium	1.4	0.29	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Calcium	1300	8.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Chromium	86	0.58	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Cobalt	15	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Copper	180	0.58	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:27	OP
Iron	56000	5.8	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:21	OP
Lead	580	0.86	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Magnesium	9700	8.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Manganese	390	0.58	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:27	OP
Mercury	0.33	0.029	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:19	SAJ
Nickel	43	0.58	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Potassium	4300	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP
Vanadium	65	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:27	OP
Zinc	460	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:47	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-7 (5-6)
Sampled: 11/7/2012 09:00

Sample ID: 12K0347-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	4.1	0.50	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	84.7		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (0-1) | Sampled: 11/7/2012 09:25

Sample ID: 12K0347-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.0	30-150		11/14/12 17:09
Decachlorobiphenyl [2]	87.7	30-150		11/14/12 17:09
Tetrachloro-m-xylene [1]	83.3	30-150		11/14/12 17:09
Tetrachloro-m-xylene [2]	84.2	30-150		11/14/12 17:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (0-1) | Sampled: 11/7/2012 09:25

Sample ID: 12K0347-21

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	MS-09	MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 14:41	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	55.7	40-140		11/15/12 14:41
o-Terphenyl (OTP)	42.6	40-140		11/15/12 14:41
2-Bromonaphthalene	75.3	40-140		11/15/12 14:41
2-Fluorobiphenyl	81.1	40-140		11/15/12 14:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (0-1) | Sampled: 11/7/2012 09:25

Sample ID: 12K0347-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	30000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Barium	120	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Beryllium	ND	0.60	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:26	OP
Cadmium	0.40	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Calcium	790	9.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Chromium	100	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Cobalt	14	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Copper	11	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:32	OP
Iron	27000	6.0	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:26	OP
Lead	7.6	0.90	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Magnesium	9900	9.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Manganese	170	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:32	OP
Mercury	0.043	0.030	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:20	SAJ
Nickel	40	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Potassium	3700	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP
Vanadium	69	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:32	OP
Zinc	64	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:51	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (0-1)
Sampled: 11/7/2012 09:25

Sample ID: 12K0347-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.8	0.51	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	81.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (3-4) | Sampled: 11/7/2012 09:30

Sample ID: 12K0347-22

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.5	30-150		11/14/12 17:21
Decachlorobiphenyl [2]	84.9	30-150		11/14/12 17:21
Tetrachloro-m-xylene [1]	78.6	30-150		11/14/12 17:21
Tetrachloro-m-xylene [2]	79.4	30-150		11/14/12 17:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347
Date Received: 11/9/2012
Field Sample #: T-TP-8 (3-4)
Sampled: 11/7/2012 09:30
Sample ID: 12K0347-22
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 16:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	73.8	40-140		11/15/12 16:43
o-Terphenyl (OTP)	73.5	40-140		11/15/12 16:43
2-Bromonaphthalene	80.9	40-140		11/15/12 16:43
2-Fluorobiphenyl	91.3	40-140		11/15/12 16:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (3-4) | Sampled: 11/7/2012 09:30

Sample ID: 12K0347-22

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	27000	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Barium	220	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	11/10/12	11/13/12 17:31	OP
Cadmium	0.31	0.26	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Calcium	1200	7.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Chromium	180	0.53	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Cobalt	17	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Copper	16	0.53	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:36	OP
Iron	28000	13	mg/Kg dry	5		SW-846 6010C	11/10/12	11/13/12 17:31	OP
Lead	3.7	0.79	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Magnesium	15000	7.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Manganese	200	0.53	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:36	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:22	SAJ
Nickel	57	0.53	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Potassium	7700	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Sodium	ND	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP
Vanadium	69	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 15:36	OP
Zinc	52	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:55	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-8 (3-4)
Sampled: 11/7/2012 09:30

Sample ID: 12K0347-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.45	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	89.7		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-1
Sampled: 11/7/2012 10:00

Sample ID: 12K0347-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1221 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1232 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1242 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1248 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1254 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1260 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1262 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC
Aroclor-1268 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:33	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	140	30-150		11/14/12 17:33
Decachlorobiphenyl [2]	141	30-150		11/14/12 17:33
Tetrachloro-m-xylene [1]	146	30-150		11/14/12 17:33
Tetrachloro-m-xylene [2]	149	30-150		11/14/12 17:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-1 | Sampled: 11/7/2012 10:00

Sample ID: 12K0347-23

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
C19-C36 Aliphatics	ND	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Unadjusted C11-C22 Aromatics	23	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
C11-C22 Aromatics	23	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Acenaphthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Acenaphthylene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Chrysene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Fluorene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Naphthalene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Phenanthrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS
Pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	63.6	40-140		11/15/12 17:04
o-Terphenyl (OTP)	68.2	40-140		11/15/12 17:04
2-Bromonaphthalene	78.0	40-140		11/15/12 17:04
2-Fluorobiphenyl	90.8	40-140		11/15/12 17:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-1 | Sampled: 11/7/2012 10:00

Sample ID: 12K0347-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9400	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Antimony	ND	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Arsenic	7.2	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Barium	75	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Beryllium	ND	0.41	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Cadmium	0.52	0.41	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Calcium	2200	12	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Chromium	16	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Cobalt	13	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Copper	14	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:02	OP
Iron	21000	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:02	OP
Lead	29	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Magnesium	2000	12	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Manganese	1800	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:02	OP
Mercury	ND	0.044	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:24	SAJ
Nickel	11	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Potassium	1400	170	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Selenium	ND	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Silver	ND	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Sodium	ND	170	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Thallium	ND	4.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP
Vanadium	31	1.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:02	OP
Zinc	87	1.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:19	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-1
Sampled: 11/7/2012 10:00

Sample ID: 12K0347-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.70	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	56.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-2 | Sampled: 11/7/2012 10:05

Sample ID: 12K0347-24

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	69.8	30-150		11/14/12 17:46
Decachlorobiphenyl [2]	69.0	30-150		11/14/12 17:46
Tetrachloro-m-xylene [1]	66.7	30-150		11/14/12 17:46
Tetrachloro-m-xylene [2]	67.2	30-150		11/14/12 17:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-2 | Sampled: 11/7/2012 10:05

Sample ID: 12K0347-24

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
C19-C36 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Unadjusted C11-C22 Aromatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
C11-C22 Aromatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Benzo(a)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Benzo(a)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Benzo(b)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Benzo(g,h,i)perylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Chrysene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Phenanthrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS
Pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.7	40-140		11/15/12 17:25
o-Terphenyl (OTP)	68.8	40-140		11/15/12 17:25
2-Bromonaphthalene	80.5	40-140		11/15/12 17:25
2-Fluorobiphenyl	91.6	40-140		11/15/12 17:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-2 | Sampled: 11/7/2012 10:05

Sample ID: 12K0347-24

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	19000	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Arsenic	6.9	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Barium	91	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Cadmium	0.58	0.34	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Calcium	3200	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Chromium	59	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Cobalt	14	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Copper	14	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:07	OP
Iron	29000	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:07	OP
Lead	22	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Magnesium	8900	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Manganese	1000	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:07	OP
Mercury	ND	0.036	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:25	SAJ
Nickel	23	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Potassium	4400	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Selenium	ND	6.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Silver	ND	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Sodium	150	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP
Vanadium	70	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:07	OP
Zinc	120	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:25	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-SWD-2
Sampled: 11/7/2012 10:05

Sample ID: 12K0347-24

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.42	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	67.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (0-1)
Sampled: 11/7/2012 10:20

Sample ID: 12K0347-25

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:58	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.2	30-150		11/14/12 17:58
Decachlorobiphenyl [2]	78.4	30-150		11/14/12 17:58
Tetrachloro-m-xylene [1]	75.4	30-150		11/14/12 17:58
Tetrachloro-m-xylene [2]	76.3	30-150		11/14/12 17:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (0-1) | Sampled: 11/7/2012 10:20

Sample ID: 12K0347-25

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Unadjusted C11-C22 Aromatics	20	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
C11-C22 Aromatics	20	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 17:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	53.7	40-140		11/15/12 17:46
o-Terphenyl (OTP)	55.3	40-140		11/15/12 17:46
2-Bromonaphthalene	81.7	40-140		11/15/12 17:46
2-Fluorobiphenyl	92.0	40-140		11/15/12 17:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (0-1) | Sampled: 11/7/2012 10:20

Sample ID: 12K0347-25

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Arsenic	24	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Barium	45	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Cadmium	0.50	0.30	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Calcium	350	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Chromium	31	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Cobalt	6.7	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Copper	9.9	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:12	OP
Iron	17000	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:12	OP
Lead	28	0.91	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Magnesium	2400	9.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Manganese	74	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:12	OP
Mercury	0.065	0.031	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:27	SAJ
Nickel	19	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Potassium	390	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP
Vanadium	43	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:12	OP
Zinc	39	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:29	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (0-1)
Sampled: 11/7/2012 10:20

Sample ID: 12K0347-25

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.42	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	79.4		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (3-4) | Sampled: 11/7/2012 10:25

Sample ID: 12K0347-26

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:10	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.1	30-150		11/14/12 18:10
Decachlorobiphenyl [2]	84.5	30-150		11/14/12 18:10
Tetrachloro-m-xylene [1]	80.2	30-150		11/14/12 18:10
Tetrachloro-m-xylene [2]	81.2	30-150		11/14/12 18:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (3-4) | Sampled: 11/7/2012 10:25

Sample ID: 12K0347-26

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	78.1	40-140		11/15/12 18:07
o-Terphenyl (OTP)	79.1	40-140		11/15/12 18:07
2-Bromonaphthalene	79.9	40-140		11/15/12 18:07
2-Fluorobiphenyl	88.5	40-140		11/15/12 18:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (3-4) | Sampled: 11/7/2012 10:25

Sample ID: 12K0347-26

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Arsenic	42	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Barium	53	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Cadmium	0.56	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Calcium	600	7.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Chromium	42	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Cobalt	11	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Copper	25	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Iron	15000	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Lead	3.2	0.76	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Magnesium	6300	7.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Manganese	130	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:29	SAJ
Nickel	38	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Potassium	2500	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Sodium	ND	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP
Vanadium	31	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:16	OP
Zinc	24	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:33	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-9 (3-4)
Sampled: 11/7/2012 10:25

Sample ID: 12K0347-26

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.67	0.49	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	92.4		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (0-1)
Sampled: 11/7/2012 10:50

Sample ID: 12K0347-27

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1221 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1232 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1242 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1248 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1254 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1260 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1262 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC
Aroclor-1268 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:23	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	72.2	30-150		11/14/12 18:23
Decachlorobiphenyl [2]	71.0	30-150		11/14/12 18:23
Tetrachloro-m-xylene [1]	71.3	30-150		11/14/12 18:23
Tetrachloro-m-xylene [2]	72.0	30-150		11/14/12 18:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (0-1) | Sampled: 11/7/2012 10:50

Sample ID: 12K0347-27

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
C19-C36 Aliphatics	30	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Unadjusted C11-C22 Aromatics	40	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
C11-C22 Aromatics	39	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Acenaphthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Acenaphthylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Benzo(a)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Benzo(a)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Benzo(b)fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Benzo(g,h,i)perylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Benzo(k)fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Chrysene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Dibenz(a,h)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Fluoranthene	0.23	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Fluorene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Indeno(1,2,3-cd)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
2-Methylnaphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Naphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Phenanthrene	0.21	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS
Pyrene	0.18	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	41.0	40-140		11/15/12 18:28
o-Terphenyl (OTP)	40.4	40-140		11/15/12 18:28
2-Bromonaphthalene	74.5	40-140		11/15/12 18:28
2-Fluorobiphenyl	85.2	40-140		11/15/12 18:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (0-1) | Sampled: 11/7/2012 10:50

Sample ID: 12K0347-27

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Antimony	ND	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Arsenic	14	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Barium	39	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Beryllium	ND	0.71	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:36	OP
Cadmium	0.48	0.36	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Calcium	310	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Chromium	100	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Cobalt	9.1	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Copper	10	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Iron	24000	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Lead	57	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Magnesium	5900	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Manganese	100	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Mercury	0.068	0.038	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:35	SAJ
Nickel	24	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Potassium	940	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Selenium	ND	7.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Silver	ND	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Thallium	ND	3.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP
Vanadium	95	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:20	OP
Zinc	41	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:38	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (0-1)
Sampled: 11/7/2012 10:50

Sample ID: 12K0347-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.73	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	65.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (2-3) | Sampled: 11/7/2012 10:55

Sample ID: 12K0347-28

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.9	30-150		11/14/12 18:35
Decachlorobiphenyl [2]	80.2	30-150		11/14/12 18:35
Tetrachloro-m-xylene [1]	76.7	30-150		11/14/12 18:35
Tetrachloro-m-xylene [2]	77.6	30-150		11/14/12 18:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (2-3) | Sampled: 11/7/2012 10:55

Sample ID: 12K0347-28

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
C19-C36 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Unadjusted C11-C22 Aromatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
C11-C22 Aromatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Phenanthrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 18:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.3	40-140		11/15/12 18:49
o-Terphenyl (OTP)	62.8	40-140		11/15/12 18:49
2-Bromonaphthalene	85.8	40-140		11/15/12 18:49
2-Fluorobiphenyl	96.4	40-140		11/15/12 18:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (2-3) | Sampled: 11/7/2012 10:55

Sample ID: 12K0347-28

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	26000	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Antimony	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Arsenic	4.8	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Barium	160	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Beryllium	ND	0.65	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:41	OP
Cadmium	0.38	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Calcium	1500	9.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Chromium	240	0.65	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Cobalt	16	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Copper	15	0.65	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:25	OP
Iron	28000	6.5	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:41	OP
Lead	4.1	0.98	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Magnesium	13000	9.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Manganese	280	0.65	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:25	OP
Mercury	0.033	0.032	mg/Kg dry	1		SW-846 7471B	11/13/12	11/14/12 13:36	SAJ
Nickel	47	0.65	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Potassium	5200	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Silver	ND	0.65	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP
Vanadium	69	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:25	OP
Zinc	46	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:43	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-TP-10 (2-3)
Sampled: 11/7/2012 10:55

Sample ID: 12K0347-28

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.35	mg/Kg dry	1		SW-846 9014	11/13/12	11/13/12 14:45	VAK
% Solids	76.4		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-3 | Sampled: 11/7/2012 10:40

Sample ID: 12K0347-29

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 18:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.3	30-150		11/14/12 18:47
Decachlorobiphenyl [2]	78.5	30-150		11/14/12 18:47
Tetrachloro-m-xylene [1]	78.3	30-150		11/14/12 18:47
Tetrachloro-m-xylene [2]	79.1	30-150		11/14/12 18:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-3 | Sampled: 11/7/2012 10:40

Sample ID: 12K0347-29

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
C19-C36 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Unadjusted C11-C22 Aromatics	16	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
C11-C22 Aromatics	16	13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Fluoranthene	0.14	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Phenanthrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.1	40-140		11/15/12 19:10
o-Terphenyl (OTP)	72.1	40-140		11/15/12 19:10
2-Bromonaphthalene	78.6	40-140		11/15/12 19:10
2-Fluorobiphenyl	87.4	40-140		11/15/12 19:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-3 | Sampled: 11/7/2012 10:40

Sample ID: 12K0347-29

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Antimony	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Arsenic	11	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Barium	38	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Cadmium	ND	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Calcium	690	9.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Chromium	34	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Cobalt	6.1	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Copper	7.2	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Iron	14000	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Lead	20	0.99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Magnesium	4300	9.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Manganese	100	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Mercury	0.046	0.033	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:10	SAJ
Nickel	15	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Potassium	1500	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Selenium	ND	6.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Silver	ND	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP
Vanadium	43	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:29	OP
Zinc	28	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:47	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-3
Sampled: 11/7/2012 10:40

Sample ID: 12K0347-29

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.58	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	74.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-2 | Sampled: 11/7/2012 11:25

Sample ID: 12K0347-30

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.3	30-150		11/14/12 19:24
Decachlorobiphenyl [2]	73.8	30-150		11/14/12 19:24
Tetrachloro-m-xylene [1]	72.3	30-150		11/14/12 19:24
Tetrachloro-m-xylene [2]	73.0	30-150		11/14/12 19:24

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-2 | Sampled: 11/7/2012 11:25

Sample ID: 12K0347-30

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
C19-C36 Aliphatics	41	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Unadjusted C11-C22 Aromatics	53	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
C11-C22 Aromatics	53	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Fluoranthene	0.19	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS
Pyrene	0.23	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	57.8	40-140		11/15/12 19:31
o-Terphenyl (OTP)	58.6	40-140		11/15/12 19:31
2-Bromonaphthalene	82.2	40-140		11/15/12 19:31
2-Fluorobiphenyl	93.1	40-140		11/15/12 19:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-2 | Sampled: 11/7/2012 11:25

Sample ID: 12K0347-30

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Arsenic	18	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Barium	97	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Beryllium	ND	0.62	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 17:45	OP
Cadmium	0.60	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Calcium	770	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Chromium	65	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Cobalt	9.2	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Copper	67	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:34	OP
Iron	25000	6.2	mg/Kg dry	2		SW-846 6010C	11/10/12	11/13/12 17:45	OP
Lead	190	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Magnesium	5500	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Manganese	150	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:34	OP
Mercury	0.39	0.031	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:11	SAJ
Nickel	26	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Potassium	1500	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP
Vanadium	51	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/13/12 16:34	OP
Zinc	120	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 19:52	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-2
Sampled: 11/7/2012 11:25

Sample ID: 12K0347-30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	2.6	0.52	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	81.2		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-1 | Sampled: 11/7/2012 11:30

Sample ID: 12K0347-31

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.27	mg/Kg dry	10	R-05	SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1221 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1232 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1242 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1248 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1254 [1]	1.6	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1260 [1]	0.37	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1262 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC
Aroclor-1268 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	11/12/12	11/15/12 9:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	114	30-150		11/15/12 9:48
Decachlorobiphenyl [2]	90.5	30-150		11/15/12 9:48
Tetrachloro-m-xylene [1]	78.5	30-150		11/15/12 9:48
Tetrachloro-m-xylene [2]	79.4	30-150		11/15/12 9:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-1 | Sampled: 11/7/2012 11:30

Sample ID: 12K0347-31

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
C19-C36 Aliphatics	34	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Unadjusted C11-C22 Aromatics	45	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
C11-C22 Aromatics	41	14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Benzo(a)anthracene	0.36	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Benzo(a)pyrene	0.41	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Benzo(b)fluoranthene	0.46	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Benzo(g,h,i)perylene	0.18	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Chrysene	0.43	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Fluoranthene	0.78	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Indeno(1,2,3-cd)pyrene	0.34	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Phenanthrene	0.45	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS
Pyrene	1.0	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 19:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	56.3	40-140		11/15/12 19:51
o-Terphenyl (OTP)	63.5	40-140		11/15/12 19:51
2-Bromonaphthalene	91.5	40-140		11/15/12 19:51
2-Fluorobiphenyl	103	40-140		11/15/12 19:51

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-1 | Sampled: 11/7/2012 11:30

Sample ID: 12K0347-31

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	3.3	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Antimony	ND	3.3	mg/Kg dry	1	MS-07	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Arsenic	5.3	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Barium	130	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Beryllium	ND	0.66	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:18	OP
Cadmium	0.80	0.33	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Calcium	3700	9.9	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Chromium	67	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Cobalt	13	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Copper	100	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Iron	61000	330	mg/Kg dry	100	MS-19	SW-846 6010C	11/10/12	11/13/12 16:38	OP
Lead	100	0.99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Magnesium	6500	9.9	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Manganese	700	0.66	mg/Kg dry	1	MS-19	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Mercury	0.32	0.035	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:17	SAJ
Nickel	45	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Potassium	6100	130	mg/Kg dry	1	MS-19, R-02	SW-846 6010C	11/10/12	11/12/12 16:10	OP
Selenium	ND	6.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Silver	ND	0.66	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Vanadium	56	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP
Zinc	170	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:10	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-1
Sampled: 11/7/2012 11:30

Sample ID: 12K0347-31

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.68	0.43	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	71.8		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-2 | Sampled: 11/7/2012 00:00

Sample ID: 12K0347-32

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1221 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1232 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1242 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1248 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1254 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1260 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1262 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC
Aroclor-1268 [2]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 19:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	76.2	30-150		11/14/12 19:49
Decachlorobiphenyl [2]	75.3	30-150		11/14/12 19:49
Tetrachloro-m-xylene [1]	71.0	30-150		11/14/12 19:49
Tetrachloro-m-xylene [2]	71.6	30-150		11/14/12 19:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-2 | Sampled: 11/7/2012 00:00

Sample ID: 12K0347-32

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
C19-C36 Aliphatics	38	30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Unadjusted C11-C22 Aromatics	62	30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
C11-C22 Aromatics	61	30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Acenaphthene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Acenaphthylene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Anthracene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Benzo(a)anthracene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Benzo(a)pyrene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Benzo(b)fluoranthene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Benzo(g,h,i)perylene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Benzo(k)fluoranthene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Chrysene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Dibenz(a,h)anthracene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Fluoranthene	0.37	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Fluorene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Indeno(1,2,3-cd)pyrene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
2-Methylnaphthalene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Naphthalene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Phenanthrene	0.36	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS
Pyrene	ND	0.30	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.9	40-140		11/15/12 20:12
o-Terphenyl (OTP)	57.5	40-140		11/15/12 20:12
2-Bromonaphthalene	81.8	40-140		11/15/12 20:12
2-Fluorobiphenyl	93.9	40-140		11/15/12 20:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-2 | Sampled: 11/7/2012 00:00

Sample ID: 12K0347-32

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Arsenic	16	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Barium	28	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Beryllium	ND	0.71	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:28	OP
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Calcium	220	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Chromium	98	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Cobalt	7.8	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Copper	9.8	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Iron	23000	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Lead	86	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Magnesium	4800	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Manganese	85	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Mercury	0.078	0.038	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:19	SAJ
Nickel	23	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Potassium	540	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Selenium	ND	7.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Silver	ND	0.71	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Vanadium	120	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP
Zinc	31	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:53	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-2
Sampled: 11/7/2012 00:00

Sample ID: 12K0347-32

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.66	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	65.6		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (0-1) | Sampled: 11/7/2012 15:35

Sample ID: 12K0347-33

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1221 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1232 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1242 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1248 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1254 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1260 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1262 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC
Aroclor-1268 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.8	30-150		11/14/12 20:01
Decachlorobiphenyl [2]	81.4	30-150		11/14/12 20:01
Tetrachloro-m-xylene [1]	78.2	30-150		11/14/12 20:01
Tetrachloro-m-xylene [2]	78.6	30-150		11/14/12 20:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (0-1) | Sampled: 11/7/2012 15:35

Sample ID: 12K0347-33

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	81.7	40-140		11/15/12 20:33
o-Terphenyl (OTP)	88.7	40-140		11/15/12 20:33
2-Bromonaphthalene	90.5	40-140		11/15/12 20:33
2-Fluorobiphenyl	102	40-140		11/15/12 20:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (0-1) | Sampled: 11/7/2012 15:35

Sample ID: 12K0347-33

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5400	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Antimony	ND	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Arsenic	3.6	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Barium	26	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Beryllium	ND	0.48	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:33	OP
Cadmium	ND	0.24	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Calcium	1400	7.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Chromium	11	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Cobalt	5.1	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Copper	9.6	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Iron	8900	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Lead	8.1	0.73	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Magnesium	2500	7.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Manganese	170	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:21	SAJ
Nickel	9.9	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Potassium	1400	97	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Selenium	ND	4.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Silver	ND	0.48	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Sodium	ND	97	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Thallium	ND	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Vanadium	15	0.97	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP
Zinc	30	0.97	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 16:57	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (0-1)
Sampled: 11/7/2012 15:35

Sample ID: 12K0347-33

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.36	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	95.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (2-3) | Sampled: 11/7/2012 15:45

Sample ID: 12K0347-34

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.0	30-150		11/14/12 20:13
Decachlorobiphenyl [2]	80.5	30-150		11/14/12 20:13
Tetrachloro-m-xylene [1]	80.8	30-150		11/14/12 20:13
Tetrachloro-m-xylene [2]	80.8	30-150		11/14/12 20:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (2-3) | Sampled: 11/7/2012 15:45

Sample ID: 12K0347-34

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
C19-C36 Aliphatics	28	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Unadjusted C11-C22 Aromatics	53	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
C11-C22 Aromatics	42	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Acenaphthylene	0.16	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Anthracene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Benzo(a)anthracene	0.65	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Benzo(a)pyrene	0.88	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Benzo(b)fluoranthene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Benzo(g,h,i)perylene	0.63	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Benzo(k)fluoranthene	0.42	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Chrysene	0.99	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Dibenz(a,h)anthracene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Fluoranthene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Fluorene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Indeno(1,2,3-cd)pyrene	0.72	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Phenanthrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS
Pyrene	1.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 20:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.5	40-140		11/15/12 20:54
o-Terphenyl (OTP)	77.5	40-140		11/15/12 20:54
2-Bromonaphthalene	89.8	40-140		11/15/12 20:54
2-Fluorobiphenyl	101	40-140		11/15/12 20:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (2-3) | Sampled: 11/7/2012 15:45

Sample ID: 12K0347-34

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Arsenic	9.9	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Barium	140	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Beryllium	ND	0.56	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:37	OP
Cadmium	0.28	0.28	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Calcium	2700	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Chromium	55	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Cobalt	13	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Copper	36	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Iron	20000	28	mg/Kg dry	10		SW-846 6010C	11/10/12	11/13/12 17:11	OP
Lead	94	0.83	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Magnesium	8200	8.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Manganese	390	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Mercury	0.072	0.028	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:22	SAJ
Nickel	38	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Potassium	6700	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Sodium	290	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Vanadium	50	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP
Zinc	73	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:02	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (2-3)
Sampled: 11/7/2012 15:45

Sample ID: 12K0347-34

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.37	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	88.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (4-5) | Sampled: 11/7/2012 15:55

Sample ID: 12K0347-35

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:26	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	62.9	30-150		11/14/12 20:26
Decachlorobiphenyl [2]	68.6	30-150		11/14/12 20:26
Tetrachloro-m-xylene [1]	62.5	30-150		11/14/12 20:26
Tetrachloro-m-xylene [2]	62.0	30-150		11/14/12 20:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (4-5) | Sampled: 11/7/2012 15:55

Sample ID: 12K0347-35

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
C19-C36 Aliphatics	88	26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Unadjusted C11-C22 Aromatics	330	26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
C11-C22 Aromatics	250	26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Acenaphthene	0.31	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Acenaphthylene	1.4	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Anthracene	0.90	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Benzo(a)anthracene	4.5	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Benzo(a)pyrene	6.2	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Benzo(b)fluoranthene	9.7	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Benzo(g,h,i)perylene	4.3	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Benzo(k)fluoranthene	3.2	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Chrysene	7.9	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Dibenz(a,h)anthracene	1.2	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Fluoranthene	13	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Fluorene	0.78	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Indeno(1,2,3-cd)pyrene	5.0	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
2-Methylnaphthalene	0.27	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Naphthalene	0.42	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Phenanthrene	5.9	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS
Pyrene	12	0.26	mg/Kg dry	2		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.9	40-140		11/15/12 21:14
o-Terphenyl (OTP)	74.4	40-140		11/15/12 21:14
2-Bromonaphthalene	88.1	40-140		11/15/12 21:14
2-Fluorobiphenyl	99.4	40-140		11/15/12 21:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (4-5) | Sampled: 11/7/2012 15:55

Sample ID: 12K0347-35

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Antimony	5.7	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Arsenic	18	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Barium	180	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Cadmium	0.70	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Calcium	2100	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Chromium	37	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Cobalt	11	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Copper	190	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Iron	27000	31	mg/Kg dry	10		SW-846 6010C	11/10/12	11/13/12 17:17	OP
Lead	750	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Magnesium	4100	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Manganese	590	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Mercury	0.20	0.032	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:24	SAJ
Nickel	32	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Potassium	2300	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Sodium	250	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Vanadium	120	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP
Zinc	270	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:06	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-1 (4-5)
Sampled: 11/7/2012 15:55

Sample ID: 12K0347-35

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.94	0.51	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	76.6		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-2 (0-1) | Sampled: 11/7/2012 15:05

Sample ID: 12K0347-36

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:38	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	63.4	30-150		11/14/12 20:38
Decachlorobiphenyl [2]	61.8	30-150		11/14/12 20:38
Tetrachloro-m-xylene [1]	61.3	30-150		11/14/12 20:38
Tetrachloro-m-xylene [2]	61.5	30-150		11/14/12 20:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-2 (0-1) | Sampled: 11/7/2012 15:05

Sample ID: 12K0347-36

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Unadjusted C11-C22 Aromatics	35	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
C11-C22 Aromatics	29	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Benzo(a)anthracene	0.37	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Benzo(a)pyrene	0.41	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Benzo(b)fluoranthene	0.60	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Benzo(g,h,i)perylene	0.36	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Benzo(k)fluoranthene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Chrysene	0.46	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Fluoranthene	0.95	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Indeno(1,2,3-cd)pyrene	0.44	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Phenanthrene	0.51	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS
Pyrene	0.89	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/15/12 21:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	81.5	40-140		11/15/12 21:35
o-Terphenyl (OTP)	87.3	40-140		11/15/12 21:35
2-Bromonaphthalene	87.4	40-140		11/15/12 21:35
2-Fluorobiphenyl	95.3	40-140		11/15/12 21:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-2 (0-1) | Sampled: 11/7/2012 15:05

Sample ID: 12K0347-36

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Arsenic	15	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Barium	170	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Beryllium	ND	0.55	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:42	OP
Cadmium	0.31	0.27	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Calcium	2900	8.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Chromium	67	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Cobalt	16	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Copper	27	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Iron	25000	27	mg/Kg dry	10		SW-846 6010C	11/10/12	11/13/12 17:22	OP
Lead	34	0.82	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Magnesium	11000	8.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Manganese	440	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:26	SAJ
Nickel	49	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Potassium	10000	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Sodium	290	110	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Vanadium	62	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP
Zinc	62	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:11	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-2 (0-1)
Sampled: 11/7/2012 15:05

Sample ID: 12K0347-36

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.41	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	88.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (0-1) | Sampled: 11/7/2012 14:25

Sample ID: 12K0347-37

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1221 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1232 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1242 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1248 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1254 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1260 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1262 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC
Aroclor-1268 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 20:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.8	30-150		11/14/12 20:50
Decachlorobiphenyl [2]	82.0	30-150		11/14/12 20:50
Tetrachloro-m-xylene [1]	80.0	30-150		11/14/12 20:50
Tetrachloro-m-xylene [2]	80.5	30-150		11/14/12 20:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (0-1) | Sampled: 11/7/2012 14:25

Sample ID: 12K0347-37

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:55	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	83.7	40-140		11/16/12 11:55
o-Terphenyl (OTP)	68.0	40-140		11/16/12 11:55
2-Bromonaphthalene	87.0	40-140		11/16/12 11:55
2-Fluorobiphenyl	87.2	40-140		11/16/12 11:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (0-1) | Sampled: 11/7/2012 14:25

Sample ID: 12K0347-37

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Arsenic	22	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Barium	39	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Beryllium	ND	0.51	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:47	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Calcium	2300	7.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Chromium	22	0.51	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Cobalt	6.1	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Copper	17	0.51	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Iron	13000	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Lead	23	0.77	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Magnesium	3600	7.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Manganese	190	0.51	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:27	SAJ
Nickel	18	0.51	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Potassium	2100	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Sodium	180	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Vanadium	22	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP
Zinc	29	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:15	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (0-1)
Sampled: 11/7/2012 14:25

Sample ID: 12K0347-37

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.34	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	95.2		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (2-4) | Sampled: 11/7/2012 14:35

Sample ID: 12K0347-38

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1221 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1232 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1242 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1248 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1254 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1260 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1262 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC
Aroclor-1268 [2]	ND	0.097	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:03	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.5	30-150		11/14/12 21:03
Decachlorobiphenyl [2]	88.9	30-150		11/14/12 21:03
Tetrachloro-m-xylene [1]	85.0	30-150		11/14/12 21:03
Tetrachloro-m-xylene [2]	86.1	30-150		11/14/12 21:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (2-4) | Sampled: 11/7/2012 14:35

Sample ID: 12K0347-38

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	80.9	40-140		11/16/12 12:15
o-Terphenyl (OTP)	66.0	40-140		11/16/12 12:15
2-Bromonaphthalene	86.2	40-140		11/16/12 12:15
2-Fluorobiphenyl	85.8	40-140		11/16/12 12:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (2-4) | Sampled: 11/7/2012 14:35

Sample ID: 12K0347-38

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4600	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Arsenic	6.8	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Barium	17	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Calcium	1500	7.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Chromium	8.0	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Cobalt	3.1	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Copper	6.4	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Iron	6100	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Lead	6.1	0.75	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Magnesium	1600	7.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Manganese	89	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:29	SAJ
Nickel	7.2	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Potassium	950	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Sodium	110	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Vanadium	9.2	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP
Zinc	15	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:20	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (2-4)
Sampled: 11/7/2012 14:35

Sample ID: 12K0347-38

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.30	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	96.3		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (4-5) | Sampled: 11/7/2012 14:40

Sample ID: 12K0347-39

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:15	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.9	30-150		11/14/12 21:15
Decachlorobiphenyl [2]	78.2	30-150		11/14/12 21:15
Tetrachloro-m-xylene [1]	74.3	30-150		11/14/12 21:15
Tetrachloro-m-xylene [2]	73.3	30-150		11/14/12 21:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (4-5) | Sampled: 11/7/2012 14:40

Sample ID: 12K0347-39

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
C19-C36 Aliphatics	31	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Unadjusted C11-C22 Aromatics	34	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
C11-C22 Aromatics	26	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Acenaphthene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Anthracene	0.24	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Benzo(a)anthracene	0.65	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Benzo(a)pyrene	0.72	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Benzo(b)fluoranthene	0.87	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Benzo(g,h,i)perylene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Benzo(k)fluoranthene	0.30	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Chrysene	0.70	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Fluoranthene	1.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Fluorene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Indeno(1,2,3-cd)pyrene	0.49	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Phenanthrene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS
Pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	87.0	40-140		11/16/12 12:36
o-Terphenyl (OTP)	71.7	40-140		11/16/12 12:36
2-Bromonaphthalene	85.7	40-140		11/16/12 12:36
2-Fluorobiphenyl	85.5	40-140		11/16/12 12:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (4-5)
Sampled: 11/7/2012 14:40

Sample ID: 12K0347-39

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Arsenic	6.5	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Barium	110	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Beryllium	ND	0.52	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:52	OP
Cadmium	0.31	0.26	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Calcium	2200	7.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Chromium	51	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Cobalt	11	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Copper	32	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Iron	21000	26	mg/Kg dry	10		SW-846 6010C	11/10/12	11/13/12 17:28	OP
Lead	44	0.78	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Magnesium	7300	7.8	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Manganese	310	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Mercury	0.064	0.028	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:31	SAJ
Nickel	35	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Potassium	5300	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Sodium	200	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Vanadium	42	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP
Zinc	59	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:45	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-3 (4-5)
Sampled: 11/7/2012 14:40

Sample ID: 12K0347-39

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.48	0.33	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	88.7		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (0-1) | Sampled: 11/7/2012 13:30

Sample ID: 12K0347-40

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1221 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1232 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1242 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1248 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1254 [2]	0.17	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1260 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1262 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC
Aroclor-1268 [2]	ND	0.098	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 21:27	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.0	30-150		11/14/12 21:27
Decachlorobiphenyl [2]	83.7	30-150		11/14/12 21:27
Tetrachloro-m-xylene [1]	81.6	30-150		11/14/12 21:27
Tetrachloro-m-xylene [2]	82.0	30-150		11/14/12 21:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347
Date Received: 11/9/2012
Field Sample #: H-TP-4 (0-1)
Sampled: 11/7/2012 13:30
Sample ID: 12K0347-40
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
C19-C36 Aliphatics	27	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 12:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	78.9	40-140		11/16/12 12:57
o-Terphenyl (OTP)	63.2	40-140		11/16/12 12:57
2-Bromonaphthalene	82.2	40-140		11/16/12 12:57
2-Fluorobiphenyl	82.0	40-140		11/16/12 12:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (0-1)
Sampled: 11/7/2012 13:30

Sample ID: 12K0347-40

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6100	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Barium	27	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Cadmium	0.38	0.25	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Calcium	1600	7.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Chromium	83	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Cobalt	7.3	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Copper	64	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Iron	59000	250	mg/Kg dry	100		SW-846 6010C	11/10/12	11/13/12 17:33	OP
Lead	45	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Magnesium	2000	7.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Manganese	580	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:33	SAJ
Nickel	40	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Potassium	1100	99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Sodium	220	99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Vanadium	24	0.99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP
Zinc	27	0.99	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:50	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (0-1)
Sampled: 11/7/2012 13:30

Sample ID: 12K0347-40

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.33	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	95.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-3
Sampled: 11/7/2012 00:00

Sample ID: 12K0347-41

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1254 [2]	0.18	0.10	mg/Kg dry	5	O-03	SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		11/14/12 16:30
Decachlorobiphenyl [2]	80.4	30-150		11/14/12 16:30
Tetrachloro-m-xylene [1]	80.4	30-150		11/14/12 16:30
Tetrachloro-m-xylene [2]	83.4	30-150		11/14/12 16:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-3 | Sampled: 11/7/2012 00:00

Sample ID: 12K0347-41

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
C19-C36 Aliphatics	32	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 11:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	94.1	40-140		11/16/12 11:13
o-Terphenyl (OTP)	73.8	40-140		11/16/12 11:13
2-Bromonaphthalene	80.9	40-140		11/16/12 11:13
2-Fluorobiphenyl	86.0	40-140		11/16/12 11:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-3
Sampled: 11/7/2012 00:00

Sample ID: 12K0347-41

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5400	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Antimony	ND	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Barium	26	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Beryllium	ND	0.24	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Cadmium	0.38	0.24	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Calcium	1200	7.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Chromium	87	0.49	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Cobalt	7.6	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Copper	71	0.49	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Iron	61000	240	mg/Kg dry	100		SW-846 6010C	11/10/12	11/13/12 17:38	OP
Lead	46	0.73	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Magnesium	2000	7.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Manganese	590	0.49	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:42	SAJ
Nickel	46	0.49	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Potassium	1200	98	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Sodium	110	98	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Thallium	ND	2.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Vanadium	27	0.98	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP
Zinc	27	0.98	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 17:55	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-3
Sampled: 11/7/2012 00:00

Sample ID: 12K0347-41

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.29	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	95.9		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (5-6) | Sampled: 11/7/2012 13:35

Sample ID: 12K0347-42

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 16:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		11/14/12 16:43
Decachlorobiphenyl [2]	80.5	30-150		11/14/12 16:43
Tetrachloro-m-xylene [1]	79.7	30-150		11/14/12 16:43
Tetrachloro-m-xylene [2]	82.4	30-150		11/14/12 16:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (5-6) | Sampled: 11/7/2012 13:35

Sample ID: 12K0347-42

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 8:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	73.3	40-140		11/16/12 8:47
o-Terphenyl (OTP)	79.0	40-140		11/16/12 8:47
2-Bromonaphthalene	86.8	40-140		11/16/12 8:47
2-Fluorobiphenyl	96.2	40-140		11/16/12 8:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (5-6) | Sampled: 11/7/2012 13:35

Sample ID: 12K0347-42

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4900	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Arsenic	6.6	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Barium	17	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Calcium	910	7.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Chromium	8.1	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Cobalt	3.4	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Copper	5.9	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Iron	6900	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Lead	4.9	0.77	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Magnesium	1700	7.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Manganese	110	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:43	SAJ
Nickel	7.0	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Potassium	950	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Sodium	260	100	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Vanadium	11	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP
Zinc	18	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:00	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (5-6)
Sampled: 11/7/2012 13:35

Sample ID: 12K0347-42

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.58	0.33	mg/Kg dry	1		SW-846 9014	11/15/12	11/15/12 14:40	VAK
% Solids	94.7		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (12-14) | Sampled: 11/7/2012 13:40

Sample ID: 12K0347-43

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	11/12/12	11/15/12 9:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	115	30-150		11/15/12 9:35
Decachlorobiphenyl [2]	89.2	30-150		11/15/12 9:35
Tetrachloro-m-xylene [1]	73.9	30-150		11/15/12 9:35
Tetrachloro-m-xylene [2]	74.1	30-150		11/15/12 9:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (12-14) | Sampled: 11/7/2012 13:40

Sample ID: 12K0347-43

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Unadjusted C11-C22 Aromatics	16	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
C11-C22 Aromatics	16	12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:08	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	49.6	40-140		11/16/12 9:08
o-Terphenyl (OTP)	51.4	40-140		11/16/12 9:08
2-Bromonaphthalene	94.4	40-140		11/16/12 9:08
2-Fluorobiphenyl	104	40-140		11/16/12 9:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (12-14) | Sampled: 11/7/2012 13:40

Sample ID: 12K0347-43

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Arsenic	4.4	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Barium	120	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Beryllium	ND	0.62	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 18:57	OP
Cadmium	ND	0.31	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Calcium	2500	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Chromium	57	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Cobalt	11	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Copper	30	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Iron	19000	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Lead	72	0.92	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Magnesium	7800	9.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Manganese	270	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Mercury	0.13	0.031	mg/Kg dry	1		SW-846 7471B	11/14/12	11/14/12 14:45	SAJ
Nickel	31	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Potassium	5400	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Sodium	260	120	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Vanadium	44	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP
Zinc	75	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:06	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: H-TP-4 (12-14)
Sampled: 11/7/2012 13:40

Sample ID: 12K0347-43

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.41	mg/Kg dry	1		SW-846 9014	11/16/12	11/16/12 11:30	VAK
% Solids	81.0		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-4
Sampled: 11/8/2012 00:00

Sample ID: 12K0347-44

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:08	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.5	30-150		11/14/12 17:08
Decachlorobiphenyl [2]	71.8	30-150		11/14/12 17:08
Tetrachloro-m-xylene [1]	63.2	30-150		11/14/12 17:08
Tetrachloro-m-xylene [2]	64.9	30-150		11/14/12 17:08

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-4 | Sampled: 11/8/2012 00:00

Sample ID: 12K0347-44

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
C19-C36 Aliphatics	130	18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Unadjusted C11-C22 Aromatics	160	18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
C11-C22 Aromatics	120	18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Acenaphthene	0.78	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Acenaphthylene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Anthracene	1.7	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Benzo(a)anthracene	2.9	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Benzo(a)pyrene	2.8	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Benzo(b)fluoranthene	3.6	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Benzo(g,h,i)perylene	2.0	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Benzo(k)fluoranthene	1.3	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Chrysene	3.0	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Dibenz(a,h)anthracene	0.52	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Fluoranthene	7.9	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Fluorene	0.91	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Indeno(1,2,3-cd)pyrene	2.3	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
2-Methylnaphthalene	0.19	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Naphthalene	0.30	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Phenanthrene	7.2	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS
Pyrene	7.3	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.3	40-140		11/16/12 9:29
o-Terphenyl (OTP)	72.9	40-140		11/16/12 9:29
2-Bromonaphthalene	81.2	40-140		11/16/12 9:29
2-Fluorobiphenyl	90.4	40-140		11/16/12 9:29

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Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-4 | Sampled: 11/8/2012 00:00

Sample ID: 12K0347-44

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9200	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Antimony	ND	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Arsenic	ND	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Barium	30	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Beryllium	ND	0.84	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 19:02	OP
Cadmium	ND	0.42	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Calcium	1000	13	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Chromium	25	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Cobalt	5.2	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Copper	11	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Iron	11000	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Lead	26	1.3	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Magnesium	3600	13	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Manganese	100	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Mercury	0.10	0.044	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:04	SAJ
Nickel	12	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Potassium	1300	170	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Selenium	ND	8.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Silver	ND	0.84	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Sodium	ND	170	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Thallium	ND	4.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Vanadium	22	1.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP
Zinc	38	1.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:10	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: DUP-4
Sampled: 11/8/2012 00:00

Sample ID: 12K0347-44

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.69	mg/Kg dry	1		SW-846 9014	11/16/12	11/16/12 11:30	VAK
% Solids	55.6		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-5 | Sampled: 11/8/2012 13:40

Sample ID: 12K0347-49

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:21	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		11/14/12 17:21
Decachlorobiphenyl [2]	84.6	30-150		11/14/12 17:21
Tetrachloro-m-xylene [1]	77.1	30-150		11/14/12 17:21
Tetrachloro-m-xylene [2]	80.5	30-150		11/14/12 17:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-5 | Sampled: 11/8/2012 13:40

Sample ID: 12K0347-49

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
C19-C36 Aliphatics	ND	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Unadjusted C11-C22 Aromatics	33	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
C11-C22 Aromatics	33	15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Acenaphthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Acenaphthylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Benzo(a)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Benzo(a)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Benzo(b)fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Benzo(g,h,i)perylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Benzo(k)fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Chrysene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Dibenz(a,h)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Fluorene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Indeno(1,2,3-cd)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
2-Methylnaphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Naphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Phenanthrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS
Pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 9:50	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.9	40-140		11/16/12 9:50
o-Terphenyl (OTP)	67.2	40-140		11/16/12 9:50
2-Bromonaphthalene	90.5	40-140		11/16/12 9:50
2-Fluorobiphenyl	100	40-140		11/16/12 9:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-5 | Sampled: 11/8/2012 13:40

Sample ID: 12K0347-49

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	23000	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Arsenic	34	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Barium	57	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Beryllium	ND	0.69	mg/Kg dry	2	DL-04	SW-846 6010C	11/10/12	11/13/12 19:24	OP
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Calcium	1500	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Chromium	46	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Cobalt	9.9	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Copper	8.9	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Iron	22000	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Lead	25	1.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Magnesium	3800	10	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Manganese	130	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Mercury	0.071	0.036	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:05	SAJ
Nickel	38	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Potassium	1000	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Selenium	ND	6.9	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Silver	ND	0.69	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Vanadium	48	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP
Zinc	51	1.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:15	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-5
Sampled: 11/8/2012 13:40

Sample ID: 12K0347-49

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.50	mg/Kg dry	1		SW-846 9014	11/16/12	11/16/12 11:30	VAK
% Solids	68.2		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-9 | Sampled: 11/8/2012 15:40

Sample ID: 12K0347-53

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		11/14/12 17:34
Decachlorobiphenyl [2]	81.6	30-150		11/14/12 17:34
Tetrachloro-m-xylene [1]	78.2	30-150		11/14/12 17:34
Tetrachloro-m-xylene [2]	82.2	30-150		11/14/12 17:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-9 | Sampled: 11/8/2012 15:40

Sample ID: 12K0347-53

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
C19-C36 Aliphatics	27	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Unadjusted C11-C22 Aromatics	47	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
C11-C22 Aromatics	47	16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Acenaphthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Acenaphthylene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Benzo(a)anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Benzo(a)pyrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Benzo(b)fluoranthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Benzo(g,h,i)perylene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Benzo(k)fluoranthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Chrysene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Dibenz(a,h)anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Fluoranthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Fluorene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Indeno(1,2,3-cd)pyrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
2-Methylnaphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Naphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Phenanthrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS
Pyrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	63.3	40-140		11/16/12 10:11
o-Terphenyl (OTP)	66.3	40-140		11/16/12 10:11
2-Bromonaphthalene	87.7	40-140		11/16/12 10:11
2-Fluorobiphenyl	99.0	40-140		11/16/12 10:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-9 | Sampled: 11/8/2012 15:40

Sample ID: 12K0347-53

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Antimony	ND	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Arsenic	4.1	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Barium	17	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Beryllium	ND	0.37	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Cadmium	ND	0.37	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Calcium	640	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Chromium	7.5	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Cobalt	ND	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Copper	5.0	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Iron	7700	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Lead	18	1.1	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Magnesium	550	11	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Manganese	38	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Mercury	0.065	0.039	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:07	SAJ
Nickel	4.2	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Potassium	310	150	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Selenium	ND	7.4	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Silver	ND	0.74	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Sodium	ND	150	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Thallium	ND	3.7	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Vanadium	18	1.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP
Zinc	19	1.5	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:19	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-HA-9
Sampled: 11/8/2012 15:40

Sample ID: 12K0347-53

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.57	mg/Kg dry	1		SW-846 9014	11/16/12	11/16/12 11:30	VAK
% Solids	64.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-4 | Sampled: 11/8/2012 15:55

Sample ID: 12K0347-55

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	11/12/12	11/14/12 17:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		11/14/12 17:47
Decachlorobiphenyl [2]	83.4	30-150		11/14/12 17:47
Tetrachloro-m-xylene [1]	85.2	30-150		11/14/12 17:47
Tetrachloro-m-xylene [2]	88.2	30-150		11/14/12 17:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-4 | Sampled: 11/8/2012 15:55

Sample ID: 12K0347-55

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
C19-C36 Aliphatics	ND	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Unadjusted C11-C22 Aromatics	43	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
C11-C22 Aromatics	43	17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Acenaphthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Acenaphthylene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Chrysene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Fluoranthene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Fluorene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Naphthalene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Phenanthrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS
Pyrene	ND	0.17	mg/Kg dry	1		MADEP-EPH-04-1.1	11/14/12	11/16/12 10:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	61.8	40-140		11/16/12 10:32
o-Terphenyl (OTP)	72.5	40-140		11/16/12 10:32
2-Bromonaphthalene	93.2	40-140		11/16/12 10:32
2-Fluorobiphenyl	106	40-140		11/16/12 10:32

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-4 | Sampled: 11/8/2012 15:55

Sample ID: 12K0347-55

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8400	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Antimony	ND	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Arsenic	ND	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Barium	31	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Beryllium	ND	0.40	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Cadmium	ND	0.40	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Calcium	940	12	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Chromium	22	0.80	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Cobalt	5.9	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Copper	11	0.80	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Iron	10000	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Lead	24	1.2	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Magnesium	3300	12	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Manganese	93	0.80	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Mercury	0.059	0.042	mg/Kg dry	1		SW-846 7471B	11/12/12	11/13/12 13:09	SAJ
Nickel	11	0.80	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Potassium	1200	160	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Selenium	ND	8.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Silver	ND	0.80	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Sodium	ND	160	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Thallium	ND	4.0	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Vanadium	20	1.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP
Zinc	38	1.6	mg/Kg dry	1		SW-846 6010C	11/10/12	11/12/12 18:25	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12K0347

Date Received: 11/9/2012

Field Sample #: T-Bank-4
Sampled: 11/8/2012 15:55

Sample ID: 12K0347-55

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.64	mg/Kg dry	1		SW-846 9014	11/16/12	11/16/12 11:30	VAK
% Solids	58.5		% Wt	1		SM 2540G	11/9/12	11/12/12 10:23	CWB

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01 [T-TP-1 (0-1)]	B062777	20.2	2.00	11/14/12
12K0347-02 [T-TP-1 (8-10)]	B062777	20.4	2.00	11/14/12
12K0347-03 [T-TP-1 (12-13)]	B062777	20.4	2.00	11/14/12
12K0347-04 [T-TP-2 (0-1)]	B062777	20.3	2.00	11/14/12
12K0347-05 [T-TP-2 (3-4)]	B062777	20.4	2.00	11/14/12
12K0347-06 [T-TP-3 (0-1)]	B062777	20.4	2.00	11/14/12
12K0347-07 [T-TP-3 (3-5.5)]	B062777	20.3	2.00	11/14/12
12K0347-08 [T-TP-4 (0-1)]	B062777	20.4	2.00	11/14/12
12K0347-09 [T-TP-4 (1-3)]	B062777	20.2	2.00	11/14/12
12K0347-10 [T-TP-4 (4-5)]	B062777	20.3	2.00	11/14/12
12K0347-11 [T-TP-5 (0-1)]	B062777	20.1	2.00	11/14/12
12K0347-12 [T-TP-5 (2.5-3.5)]	B062777	20.3	2.00	11/14/12
12K0347-13 [T-TP-5 (8-9)]	B062777	20.2	2.00	11/14/12
12K0347-15 [T-TP-6 (0-1)]	B062777	20.3	2.00	11/14/12
12K0347-16 [T-TP-6 (1-2)]	B062777	20.5	2.00	11/14/12
12K0347-17 [T-TP-6 (3.5-5)]	B062777	20.4	2.00	11/14/12
12K0347-20 [T-TP-7 (5-6)]	B062777	20.3	2.00	11/14/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-21 [T-TP-8 (0-1)]	B062789	20.3	2.00	11/14/12
12K0347-22 [T-TP-8 (3-4)]	B062789	20.2	2.00	11/14/12
12K0347-23 [T-SWD-1]	B062789	20.5	2.00	11/14/12
12K0347-24 [T-SWD-2]	B062789	20.4	2.00	11/14/12
12K0347-25 [T-TP-9 (0-1)]	B062789	20.4	2.00	11/14/12
12K0347-26 [T-TP-9 (3-4)]	B062789	20.3	2.00	11/14/12
12K0347-27 [T-TP-10 (0-1)]	B062789	20.2	2.00	11/14/12
12K0347-28 [T-TP-10 (2-3)]	B062789	20.5	2.00	11/14/12
12K0347-29 [T-Bank-3]	B062789	20.4	2.00	11/14/12
12K0347-30 [T-Bank-2]	B062789	20.4	2.00	11/14/12
12K0347-31 [T-Bank-1]	B062789	20.2	2.00	11/14/12
12K0347-32 [DUP-2]	B062789	20.5	2.00	11/14/12
12K0347-33 [H-TP-1 (0-1)]	B062789	20.6	2.00	11/14/12
12K0347-34 [H-TP-1 (2-3)]	B062789	20.5	2.00	11/14/12
12K0347-35 [H-TP-1 (4-5)]	B062789	20.2	2.00	11/14/12
12K0347-36 [H-TP-2 (0-1)]	B062789	20.2	2.00	11/14/12
12K0347-37 [H-TP-3 (0-1)]	B062789	20.4	2.00	11/14/12
12K0347-38 [H-TP-3 (2-4)]	B062789	20.5	2.00	11/14/12
12K0347-39 [H-TP-3 (4-5)]	B062789	20.3	2.00	11/14/12
12K0347-40 [H-TP-4 (0-1)]	B062789	20.6	2.00	11/14/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-41 [DUP-3]	B062803	20.0	2.00	11/14/12
12K0347-42 [H-TP-4 (5-6)]	B062803	20.0	2.00	11/14/12
12K0347-43 [H-TP-4 (12-14)]	B062803	20.0	2.00	11/14/12
12K0347-44 [DUP-4]	B062803	20.0	2.00	11/14/12
12K0347-49 [T-HA-5]	B062803	20.0	2.00	11/14/12
12K0347-53 [T-HA-9]	B062803	20.0	2.00	11/14/12
12K0347-55 [T-Bank-4]	B062803	20.0	2.00	11/14/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-14RE1 [DUP-1]	B062943	10.3	2.00	11/15/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-18RE1 [T-TP-7 (0-1)]	B062983	20.0	2.00	11/16/12
12K0347-19RE1 [T-TP-7 (2-3)]	B062983	20.0	2.00	11/16/12

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12K0347-01 [T-TP-1 (0-1)]	B062579	11/09/12
12K0347-02 [T-TP-1 (8-10)]	B062579	11/09/12
12K0347-03 [T-TP-1 (12-13)]	B062579	11/09/12
12K0347-04 [T-TP-2 (0-1)]	B062579	11/09/12
12K0347-05 [T-TP-2 (3-4)]	B062579	11/09/12
12K0347-06 [T-TP-3 (0-1)]	B062579	11/09/12
12K0347-07 [T-TP-3 (3-5.5)]	B062579	11/09/12
12K0347-08 [T-TP-4 (0-1)]	B062579	11/09/12
12K0347-09 [T-TP-4 (1-3)]	B062579	11/09/12
12K0347-10 [T-TP-4 (4-5)]	B062579	11/09/12
12K0347-11 [T-TP-5 (0-1)]	B062579	11/09/12
12K0347-12 [T-TP-5 (2.5-3.5)]	B062579	11/09/12
12K0347-13 [T-TP-5 (8-9)]	B062579	11/09/12
12K0347-14 [DUP-1]	B062579	11/09/12
12K0347-15 [T-TP-6 (0-1)]	B062579	11/09/12
12K0347-16 [T-TP-6 (1-2)]	B062579	11/09/12
12K0347-17 [T-TP-6 (3.5-5)]	B062579	11/09/12
12K0347-18 [T-TP-7 (0-1)]	B062579	11/09/12
12K0347-19 [T-TP-7 (2-3)]	B062579	11/09/12
12K0347-20 [T-TP-7 (5-6)]	B062579	11/09/12
12K0347-21 [T-TP-8 (0-1)]	B062579	11/09/12
12K0347-22 [T-TP-8 (3-4)]	B062579	11/09/12
12K0347-23 [T-SWD-1]	B062579	11/09/12
12K0347-24 [T-SWD-2]	B062579	11/09/12
12K0347-25 [T-TP-9 (0-1)]	B062579	11/09/12
12K0347-26 [T-TP-9 (3-4)]	B062579	11/09/12
12K0347-27 [T-TP-10 (0-1)]	B062579	11/09/12
12K0347-28 [T-TP-10 (2-3)]	B062579	11/09/12
12K0347-29 [T-Bank-3]	B062579	11/09/12
12K0347-30 [T-Bank-2]	B062579	11/09/12
12K0347-31 [T-Bank-1]	B062579	11/09/12
12K0347-32 [DUP-2]	B062579	11/09/12
12K0347-33 [H-TP-1 (0-1)]	B062579	11/09/12
12K0347-34 [H-TP-1 (2-3)]	B062579	11/09/12
12K0347-35 [H-TP-1 (4-5)]	B062579	11/09/12
12K0347-36 [H-TP-2 (0-1)]	B062579	11/09/12
12K0347-37 [H-TP-3 (0-1)]	B062579	11/09/12
12K0347-38 [H-TP-3 (2-4)]	B062579	11/09/12
12K0347-39 [H-TP-3 (4-5)]	B062579	11/09/12
12K0347-40 [H-TP-4 (0-1)]	B062579	11/09/12
12K0347-41 [DUP-3]	B062579	11/09/12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12K0347-42 [H-TP-4 (5-6)]	B062579	11/09/12
12K0347-43 [H-TP-4 (12-14)]	B062579	11/09/12
12K0347-44 [DUP-4]	B062579	11/09/12
12K0347-49 [T-HA-5]	B062579	11/09/12
12K0347-53 [T-HA-9]	B062579	11/09/12
12K0347-55 [T-Bank-4]	B062579	11/09/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-31 [T-Bank-1]	B062582	1.06	50.0	11/10/12
12K0347-32 [DUP-2]	B062582	1.08	50.0	11/10/12
12K0347-33 [H-TP-1 (0-1)]	B062582	1.08	50.0	11/10/12
12K0347-34 [H-TP-1 (2-3)]	B062582	1.02	50.0	11/10/12
12K0347-35 [H-TP-1 (4-5)]	B062582	1.06	50.0	11/10/12
12K0347-36 [H-TP-2 (0-1)]	B062582	1.04	50.0	11/10/12
12K0347-37 [H-TP-3 (0-1)]	B062582	1.02	50.0	11/10/12
12K0347-38 [H-TP-3 (2-4)]	B062582	1.03	50.0	11/10/12
12K0347-39 [H-TP-3 (4-5)]	B062582	1.08	50.0	11/10/12
12K0347-40 [H-TP-4 (0-1)]	B062582	1.05	50.0	11/10/12
12K0347-41 [DUP-3]	B062582	1.06	50.0	11/10/12
12K0347-42 [H-TP-4 (5-6)]	B062582	1.02	50.0	11/10/12
12K0347-43 [H-TP-4 (12-14)]	B062582	1.00	50.0	11/10/12
12K0347-44 [DUP-4]	B062582	1.07	50.0	11/10/12
12K0347-49 [T-HA-5]	B062582	1.06	50.0	11/10/12
12K0347-53 [T-HA-9]	B062582	1.05	50.0	11/10/12
12K0347-55 [T-Bank-4]	B062582	1.07	50.0	11/10/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-11 [T-TP-5 (0-1)]	B062583	1.03	50.0	11/10/12
12K0347-12 [T-TP-5 (2.5-3.5)]	B062583	1.02	50.0	11/10/12
12K0347-13 [T-TP-5 (8-9)]	B062583	1.04	50.0	11/10/12
12K0347-14 [DUP-1]	B062583	1.00	50.0	11/10/12
12K0347-15 [T-TP-6 (0-1)]	B062583	1.02	50.0	11/10/12
12K0347-16 [T-TP-6 (1-2)]	B062583	1.01	50.0	11/10/12
12K0347-17 [T-TP-6 (3.5-5)]	B062583	1.01	50.0	11/10/12
12K0347-18 [T-TP-7 (0-1)]	B062583	1.08	50.0	11/10/12
12K0347-19 [T-TP-7 (2-3)]	B062583	1.01	50.0	11/10/12
12K0347-20 [T-TP-7 (5-6)]	B062583	1.03	50.0	11/10/12
12K0347-21 [T-TP-8 (0-1)]	B062583	1.01	50.0	11/10/12
12K0347-22 [T-TP-8 (3-4)]	B062583	1.05	50.0	11/10/12
12K0347-23 [T-SWD-1]	B062583	1.07	50.0	11/10/12
12K0347-24 [T-SWD-2]	B062583	1.07	50.0	11/10/12
12K0347-25 [T-TP-9 (0-1)]	B062583	1.04	50.0	11/10/12
12K0347-26 [T-TP-9 (3-4)]	B062583	1.07	50.0	11/10/12
12K0347-27 [T-TP-10 (0-1)]	B062583	1.07	50.0	11/10/12
12K0347-28 [T-TP-10 (2-3)]	B062583	1.00	50.0	11/10/12
12K0347-29 [T-Bank-3]	B062583	1.01	50.0	11/10/12
12K0347-30 [T-Bank-2]	B062583	1.00	50.0	11/10/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01 [T-TP-1 (0-1)]	B062584	1.02	50.0	11/10/12
12K0347-02 [T-TP-1 (8-10)]	B062584	1.03	50.0	11/10/12
12K0347-03 [T-TP-1 (12-13)]	B062584	1.03	50.0	11/10/12
12K0347-04 [T-TP-2 (0-1)]	B062584	1.00	50.0	11/10/12
12K0347-05 [T-TP-2 (3-4)]	B062584	1.01	50.0	11/10/12
12K0347-06 [T-TP-3 (0-1)]	B062584	1.05	50.0	11/10/12
12K0347-07 [T-TP-3 (3-5.5)]	B062584	1.01	50.0	11/10/12
12K0347-08 [T-TP-4 (0-1)]	B062584	1.03	50.0	11/10/12
12K0347-09 [T-TP-4 (1-3)]	B062584	1.01	50.0	11/10/12
12K0347-10 [T-TP-4 (4-5)]	B062584	1.04	50.0	11/10/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01RE1 [T-TP-1 (0-1)]	B062754	1.01	50.0	11/13/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-44 [DUP-4]	B062616	0.612	50.0	11/12/12
12K0347-49 [T-HA-5]	B062616	0.610	50.0	11/12/12
12K0347-53 [T-HA-9]	B062616	0.603	50.0	11/12/12
12K0347-55 [T-Bank-4]	B062616	0.605	50.0	11/12/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01 [T-TP-1 (0-1)]	B062631	0.612	50.0	11/12/12
12K0347-02 [T-TP-1 (8-10)]	B062631	0.608	50.0	11/12/12
12K0347-03 [T-TP-1 (12-13)]	B062631	0.617	50.0	11/12/12
12K0347-04 [T-TP-2 (0-1)]	B062631	0.598	50.0	11/12/12
12K0347-05 [T-TP-2 (3-4)]	B062631	0.604	50.0	11/12/12
12K0347-06 [T-TP-3 (0-1)]	B062631	0.613	50.0	11/12/12
12K0347-07 [T-TP-3 (3-5.5)]	B062631	0.614	50.0	11/12/12
12K0347-08 [T-TP-4 (0-1)]	B062631	0.619	50.0	11/12/12
12K0347-09 [T-TP-4 (1-3)]	B062631	0.609	50.0	11/12/12
12K0347-10 [T-TP-4 (4-5)]	B062631	0.612	50.0	11/12/12
12K0347-11 [T-TP-5 (0-1)]	B062631	0.618	50.0	11/12/12
12K0347-12 [T-TP-5 (2.5-3.5)]	B062631	0.617	50.0	11/12/12
12K0347-13 [T-TP-5 (8-9)]	B062631	0.600	50.0	11/12/12
12K0347-14 [DUP-1]	B062631	0.600	50.0	11/12/12
12K0347-16 [T-TP-6 (1-2)]	B062631	0.608	50.0	11/12/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-17 [T-TP-6 (3.5-5)]	B062687	0.607	50.0	11/13/12
12K0347-18 [T-TP-7 (0-1)]	B062687	0.608	50.0	11/13/12
12K0347-19 [T-TP-7 (2-3)]	B062687	0.598	50.0	11/13/12
12K0347-20 [T-TP-7 (5-6)]	B062687	0.613	50.0	11/13/12

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Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-21 [T-TP-8 (0-1)]	B062687	0.610	50.0	11/13/12
12K0347-22 [T-TP-8 (3-4)]	B062687	0.608	50.0	11/13/12
12K0347-23 [T-SWD-1]	B062687	0.610	50.0	11/13/12
12K0347-24 [T-SWD-2]	B062687	0.612	50.0	11/13/12
12K0347-25 [T-TP-9 (0-1)]	B062687	0.605	50.0	11/13/12
12K0347-26 [T-TP-9 (3-4)]	B062687	0.616	50.0	11/13/12
12K0347-27 [T-TP-10 (0-1)]	B062687	0.606	50.0	11/13/12
12K0347-28 [T-TP-10 (2-3)]	B062687	0.617	50.0	11/13/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-29 [T-Bank-3]	B062761	0.615	50.0	11/14/12
12K0347-30 [T-Bank-2]	B062761	0.603	50.0	11/14/12
12K0347-31 [T-Bank-1]	B062761	0.604	50.0	11/14/12
12K0347-32 [DUP-2]	B062761	0.608	50.0	11/14/12
12K0347-33 [H-TP-1 (0-1)]	B062761	0.602	50.0	11/14/12
12K0347-34 [H-TP-1 (2-3)]	B062761	0.613	50.0	11/14/12
12K0347-35 [H-TP-1 (4-5)]	B062761	0.603	50.0	11/14/12
12K0347-36 [H-TP-2 (0-1)]	B062761	0.611	50.0	11/14/12
12K0347-37 [H-TP-3 (0-1)]	B062761	0.606	50.0	11/14/12
12K0347-38 [H-TP-3 (2-4)]	B062761	0.612	50.0	11/14/12
12K0347-39 [H-TP-3 (4-5)]	B062761	0.601	50.0	11/14/12
12K0347-40 [H-TP-4 (0-1)]	B062761	0.612	50.0	11/14/12
12K0347-41 [DUP-3]	B062761	0.607	50.0	11/14/12
12K0347-42 [H-TP-4 (5-6)]	B062761	0.608	50.0	11/14/12
12K0347-43 [H-TP-4 (12-14)]	B062761	0.605	50.0	11/14/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-15RE1 [T-TP-6 (0-1)]	B062780	0.612	50.0	11/14/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01 [T-TP-1 (0-1)]	B062673	10.0	10.0	11/12/12
12K0347-02 [T-TP-1 (8-10)]	B062673	10.2	10.0	11/12/12
12K0347-03 [T-TP-1 (12-13)]	B062673	10.3	10.0	11/12/12
12K0347-04 [T-TP-2 (0-1)]	B062673	10.1	10.0	11/12/12
12K0347-05 [T-TP-2 (3-4)]	B062673	10.1	10.0	11/12/12
12K0347-06 [T-TP-3 (0-1)]	B062673	10.2	10.0	11/12/12
12K0347-07 [T-TP-3 (3-5.5)]	B062673	10.3	10.0	11/12/12
12K0347-08 [T-TP-4 (0-1)]	B062673	10.3	10.0	11/12/12
12K0347-09 [T-TP-4 (1-3)]	B062673	10.1	10.0	11/12/12
12K0347-10 [T-TP-4 (4-5)]	B062673	10.1	10.0	11/12/12
12K0347-11 [T-TP-5 (0-1)]	B062673	10.0	10.0	11/12/12
12K0347-13 [T-TP-5 (8-9)]	B062673	10.4	10.0	11/12/12
12K0347-14 [DUP-1]	B062673	10.1	10.0	11/12/12
12K0347-16 [T-TP-6 (1-2)]	B062673	10.0	10.0	11/12/12
12K0347-17 [T-TP-6 (3.5-5)]	B062673	10.1	10.0	11/12/12

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-19 [T-TP-7 (2-3)]	B062673	10.1	10.0	11/12/12
12K0347-20 [T-TP-7 (5-6)]	B062673	10.3	10.0	11/12/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-21 [T-TP-8 (0-1)]	B062675	10.0	10.0	11/12/12
12K0347-22 [T-TP-8 (3-4)]	B062675	10.3	10.0	11/12/12
12K0347-23 [T-SWD-1]	B062675	10.3	10.0	11/12/12
12K0347-24 [T-SWD-2]	B062675	10.4	10.0	11/12/12
12K0347-25 [T-TP-9 (0-1)]	B062675	10.1	10.0	11/12/12
12K0347-26 [T-TP-9 (3-4)]	B062675	10.2	10.0	11/12/12
12K0347-27 [T-TP-10 (0-1)]	B062675	10.5	10.0	11/12/12
12K0347-28 [T-TP-10 (2-3)]	B062675	10.2	10.0	11/12/12
12K0347-29 [T-Bank-3]	B062675	10.6	10.0	11/12/12
12K0347-30 [T-Bank-2]	B062675	10.3	10.0	11/12/12
12K0347-31 [T-Bank-1]	B062675	10.2	10.0	11/12/12
12K0347-32 [DUP-2]	B062675	10.2	10.0	11/12/12
12K0347-33 [H-TP-1 (0-1)]	B062675	10.7	10.0	11/12/12
12K0347-34 [H-TP-1 (2-3)]	B062675	10.4	10.0	11/12/12
12K0347-35 [H-TP-1 (4-5)]	B062675	10.5	10.0	11/12/12
12K0347-36 [H-TP-2 (0-1)]	B062675	10.6	10.0	11/12/12
12K0347-37 [H-TP-3 (0-1)]	B062675	10.7	10.0	11/12/12
12K0347-38 [H-TP-3 (2-4)]	B062675	10.7	10.0	11/12/12
12K0347-39 [H-TP-3 (4-5)]	B062675	10.7	10.0	11/12/12
12K0347-40 [H-TP-4 (0-1)]	B062675	10.6	10.0	11/12/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-41 [DUP-3]	B062676	10.0	10.0	11/12/12
12K0347-42 [H-TP-4 (5-6)]	B062676	10.1	10.0	11/12/12
12K0347-43 [H-TP-4 (12-14)]	B062676	10.1	10.0	11/12/12
12K0347-44 [DUP-4]	B062676	10.7	10.0	11/12/12
12K0347-49 [T-HA-5]	B062676	10.6	10.0	11/12/12
12K0347-53 [T-HA-9]	B062676	10.3	10.0	11/12/12
12K0347-55 [T-Bank-4]	B062676	10.4	10.0	11/12/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-12 [T-TP-5 (2.5-3.5)]	B062767	10.0	10.0	11/13/12
12K0347-15 [T-TP-6 (0-1)]	B062767	10.1	10.0	11/13/12
12K0347-18 [T-TP-7 (0-1)]	B062767	10.3	10.0	11/13/12

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Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-01 [T-TP-1 (0-1)]	B062614	1.30	50.0	11/11/12
12K0347-02 [T-TP-1 (8-10)]	B062614	1.29	50.0	11/11/12

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Sample Extraction Data

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Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-03 [T-TP-1 (12-13)]	B062614	1.62	50.0	11/11/12
12K0347-04 [T-TP-2 (0-1)]	B062614	1.11	50.0	11/11/12
12K0347-05 [T-TP-2 (3-4)]	B062614	1.19	50.0	11/11/12
12K0347-06 [T-TP-3 (0-1)]	B062614	1.41	50.0	11/11/12
12K0347-07 [T-TP-3 (3-5.5)]	B062614	1.00	50.0	11/11/12
12K0347-08 [T-TP-4 (0-1)]	B062614	1.37	50.0	11/11/12
12K0347-09 [T-TP-4 (1-3)]	B062614	1.29	50.0	11/11/12
12K0347-10 [T-TP-4 (4-5)]	B062614	1.41	50.0	11/11/12
12K0347-11 [T-TP-5 (0-1)]	B062614	1.09	50.0	11/11/12
12K0347-12 [T-TP-5 (2.5-3.5)]	B062614	1.30	50.0	11/11/12
12K0347-13 [T-TP-5 (8-9)]	B062614	1.62	50.0	11/11/12
12K0347-14 [DUP-1]	B062614	1.08	50.0	11/11/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-15 [T-TP-6 (0-1)]	B062653	1.01	50.0	11/13/12
12K0347-16 [T-TP-6 (1-2)]	B062653	1.34	50.0	11/13/12
12K0347-17 [T-TP-6 (3.5-5)]	B062653	1.47	50.0	11/13/12
12K0347-18 [T-TP-7 (0-1)]	B062653	1.31	50.0	11/13/12
12K0347-19 [T-TP-7 (2-3)]	B062653	1.27	50.0	11/13/12
12K0347-20 [T-TP-7 (5-6)]	B062653	1.19	50.0	11/13/12
12K0347-21 [T-TP-8 (0-1)]	B062653	1.19	50.0	11/13/12
12K0347-22 [T-TP-8 (3-4)]	B062653	1.24	50.0	11/13/12
12K0347-23 [T-SWD-1]	B062653	1.26	50.0	11/13/12
12K0347-24 [T-SWD-2]	B062653	1.75	50.0	11/13/12
12K0347-25 [T-TP-9 (0-1)]	B062653	1.51	50.0	11/13/12
12K0347-26 [T-TP-9 (3-4)]	B062653	1.10	50.0	11/13/12
12K0347-27 [T-TP-10 (0-1)]	B062653	1.05	50.0	11/13/12
12K0347-28 [T-TP-10 (2-3)]	B062653	1.85	50.0	11/13/12

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Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-29 [T-Bank-3]	B062825	1.14	50.0	11/15/12
12K0347-30 [T-Bank-2]	B062825	1.18	50.0	11/15/12
12K0347-31 [T-Bank-1]	B062825	1.61	50.0	11/15/12
12K0347-32 [DUP-2]	B062825	1.16	50.0	11/15/12
12K0347-33 [H-TP-1 (0-1)]	B062825	1.43	50.0	11/15/12
12K0347-34 [H-TP-1 (2-3)]	B062825	1.54	50.0	11/15/12
12K0347-35 [H-TP-1 (4-5)]	B062825	1.28	50.0	11/15/12
12K0347-36 [H-TP-2 (0-1)]	B062825	1.39	50.0	11/15/12
12K0347-37 [H-TP-3 (0-1)]	B062825	1.54	50.0	11/15/12
12K0347-38 [H-TP-3 (2-4)]	B062825	1.73	50.0	11/15/12
12K0347-39 [H-TP-3 (4-5)]	B062825	1.70	50.0	11/15/12
12K0347-40 [H-TP-4 (0-1)]	B062825	1.60	50.0	11/15/12
12K0347-41 [DUP-3]	B062825	1.82	50.0	11/15/12
12K0347-42 [H-TP-4 (5-6)]	B062825	1.60	50.0	11/15/12

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Sample Extraction Data

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Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12K0347-43 [H-TP-4 (12-14)]	B062935	1.51	50.0	11/16/12
12K0347-44 [DUP-4]	B062935	1.30	50.0	11/16/12
12K0347-49 [T-HA-5]	B062935	1.46	50.0	11/16/12
12K0347-53 [T-HA-9]	B062935	1.37	50.0	11/16/12
12K0347-55 [T-Bank-4]	B062935	1.33	50.0	11/16/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062673 - SW-846 3540C										
Blank (B062673-BLK1)				Prepared: 11/12/12 Analyzed: 11/14/12						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.144*		mg/Kg wet	0.200		72.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.5	30-150			
LCS (B062673-BS1)				Prepared: 11/12/12 Analyzed: 11/14/12						
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		90.9	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		93.9	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		95.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		93.5	40-140			
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.146*		mg/Kg wet	0.200		73.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg wet	0.200		86.3	30-150			
LCS Dup (B062673-BSD1)				Prepared: 11/12/12 Analyzed: 11/14/12						
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		95.9	40-140	5.33	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		97.9	40-140	4.17	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		98.8	40-140	3.93	30	
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		96.7	40-140	3.43	30	
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062673 - SW-846 3540C											
Matrix Spike (B062673-MS1)		**Source: 12K0347-01**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.21	0.11	mg/Kg dry	0.225	0.0	95.6		40-140			
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.225	0.0	111		40-140			
Aroclor-1260	0.29	0.11	mg/Kg dry	0.225	0.0	129		40-140			
Aroclor-1260 [2C]	0.33	0.11	mg/Kg dry	0.225	0.0	**146**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.225		87.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg dry	0.225		94.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg dry	0.225		74.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg dry	0.225		88.2		30-150			
Matrix Spike Dup (B062673-MSD1)		**Source: 12K0347-01**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.25	0.11	mg/Kg dry	0.225	0.0	112		40-140	15.5	50	
Aroclor-1016 [2C]	0.26	0.11	mg/Kg dry	0.225	0.0	115		40-140	3.53	50	
Aroclor-1260	0.32	0.11	mg/Kg dry	0.225	0.0	**142**	*	40-140	9.25	50	MS-21
Aroclor-1260 [2C]	0.35	0.11	mg/Kg dry	0.225	0.0	**158**	*	40-140	8.11	50	MS-21
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg dry	0.225		89.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg dry	0.225		93.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg dry	0.225		77.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.211*		mg/Kg dry	0.225		93.7		30-150			
Batch B062675 - SW-846 3540C											
Blank (B062675-BLK1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	ND	0.020	mg/Kg wet								R-05
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.0		30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.4		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B062675 - SW-846 3540C											
LCS (B062675-BS1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		97.2	40-140				R-05, V-24
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		97.1	40-140				
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		99.8	40-140				
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		95.0	40-140				
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.3	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.162*		mg/Kg wet	0.200		81.1	30-150				
Surrogate: Tetrachloro-m-xylene	*0.148*		mg/Kg wet	0.200		73.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		74.0	30-150				
LCS Dup (B062675-BSD1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		68.9	40-140	**34.0**	*	30	R-05, V-24
Aroclor-1016 [2C]	0.14	0.10	mg/Kg wet	0.200		71.9	40-140	29.8		30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		91.9	40-140	8.31		30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		85.8	40-140	10.1		30	
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.6	30-150				
Surrogate: Tetrachloro-m-xylene	*0.0898*		mg/Kg wet	0.200		44.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.0899*		mg/Kg wet	0.200		44.9	30-150				
Matrix Spike (B062675-MS1)		**Source: 12K0347-21**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.20	0.12	mg/Kg dry	0.244	0.0	81.9	40-140				R-05, V-24
Aroclor-1016 [2C]	0.26	0.12	mg/Kg dry	0.244	0.0	105	40-140				
Aroclor-1260	0.23	0.12	mg/Kg dry	0.244	0.0	93.8	40-140				
Aroclor-1260 [2C]	0.25	0.12	mg/Kg dry	0.244	0.0	100	40-140				
Surrogate: Decachlorobiphenyl	*0.222*		mg/Kg dry	0.244		91.0	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.224*		mg/Kg dry	0.244		91.6	30-150				
Surrogate: Tetrachloro-m-xylene	*0.149*		mg/Kg dry	0.244		61.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg dry	0.244		61.4	30-150				
Matrix Spike Dup (B062675-MSD1)		**Source: 12K0347-21**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.20	0.12	mg/Kg dry	0.244	0.0	81.9	40-140	0.0947		50	R-05, V-24
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.244	0.0	104	40-140	0.933		50	
Aroclor-1260	0.21	0.12	mg/Kg dry	0.244	0.0	87.4	40-140	7.09		50	
Aroclor-1260 [2C]	0.23	0.12	mg/Kg dry	0.244	0.0	93.5	40-140	7.12		50	
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.244		85.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg dry	0.244		84.7	30-150				
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.244		83.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.205*		mg/Kg dry	0.244		83.8	30-150				
Batch B062676 - SW-846 3540C											
Blank (B062676-BLK1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062676 - SW-846 3540C											
Blank (B062676-BLK1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.207*		mg/Kg wet	0.200		104		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.162*		mg/Kg wet	0.200		80.8		30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		76.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.2		30-150			
LCS (B062676-BS1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		97.9		40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.9		40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		98.9		40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		94.5		40-140			
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.147*		mg/Kg wet	0.200		73.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.149*		mg/Kg wet	0.200		74.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.153*		mg/Kg wet	0.200		76.7		30-150			
LCS Dup (B062676-BSD1)				Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105		40-140	7.05	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		106		40-140	6.38	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106		40-140	7.32	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101		40-140	6.97	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.165*		mg/Kg wet	0.200		82.4		30-150			
Matrix Spike (B062676-MS1)		**Source: 12K0347-41**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.20	0.10	mg/Kg dry	0.209	0.0	95.0		40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg dry	0.209	0.0	102		40-140			
Aroclor-1260	0.25	0.10	mg/Kg dry	0.209	0.0	120		40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg dry	0.209	0.0	120		40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.209		85.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.142*		mg/Kg dry	0.209		68.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.148*		mg/Kg dry	0.209		71.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg dry	0.209		72.2		30-150			
Matrix Spike Dup (B062676-MSD1)		**Source: 12K0347-41**		Prepared: 11/12/12 Analyzed: 11/14/12							
Aroclor-1016	0.23	0.10	mg/Kg dry	0.209	0.0	111		40-140	16.0	50	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg dry	0.209	0.0	119		40-140	15.8	50	
Aroclor-1260	0.31	0.10	mg/Kg dry	0.209	0.0	**146**	*	40-140	20.1	50	MS-22
Aroclor-1260 [2C]	0.30	0.10	mg/Kg dry	0.209	0.0	**145**	*	40-140	19.5	50	MS-22
Surrogate: Decachlorobiphenyl	*0.224*		mg/Kg dry	0.209		108		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg dry	0.209		83.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg dry	0.209		82.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg dry	0.209		85.3		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062767 - SW-846 3540C										
Blank (B062767-BLK1)				Prepared: 11/13/12 Analyzed: 11/15/12						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg wet	0.200		87.7	30-150			
LCS (B062767-BS1)				Prepared: 11/13/12 Analyzed: 11/15/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1260	0.27	0.10	mg/Kg wet	0.200		133	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg wet	0.200		131	40-140			
Surrogate: Decachlorobiphenyl	*0.219*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
LCS Dup (B062767-BSD1)				Prepared: 11/13/12 Analyzed: 11/15/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140	0.959	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	0.743	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		112	40-140	17.1	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140	21.1	30	
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg wet	0.200		92.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062767 - SW-846 3540C										
Matrix Spike (B062767-MS1)		**Source: 12K0347-12**		Prepared: 11/13/12 Analyzed: 11/15/12						
Aroclor-1016	0.27	0.12	mg/Kg dry	0.246	0.0	110	40-140			
Aroclor-1016 [2C]	0.28	0.12	mg/Kg dry	0.246	0.0	114	40-140			
Aroclor-1260	0.28	0.12	mg/Kg dry	0.246	0.0	114	40-140			
Aroclor-1260 [2C]	0.26	0.12	mg/Kg dry	0.246	0.0	107	40-140			
Surrogate: Decachlorobiphenyl	*0.279*		mg/Kg dry	0.246		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg dry	0.246		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg dry	0.246		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.246		91.1	30-150			
Matrix Spike Dup (B062767-MSD1)		**Source: 12K0347-12**		Prepared: 11/13/12 Analyzed: 11/15/12						
Aroclor-1016	0.26	0.12	mg/Kg dry	0.246	0.0	104	40-140	5.47	50	
Aroclor-1016 [2C]	0.26	0.12	mg/Kg dry	0.246	0.0	108	40-140	5.43	50	
Aroclor-1260	0.27	0.12	mg/Kg dry	0.246	0.0	111	40-140	2.76	50	
Aroclor-1260 [2C]	0.25	0.12	mg/Kg dry	0.246	0.0	102	40-140	4.92	50	
Surrogate: Decachlorobiphenyl	*0.265*		mg/Kg dry	0.246		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg dry	0.246		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg dry	0.246		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg dry	0.246		87.4	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062777 - SW-846 3546										
Blank (B062777-BLK1)				Prepared & Analyzed: 11/14/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
n-Decane	ND	0.10	mg/Kg wet							
n-Docosane	ND	0.10	mg/Kg wet							
n-Dodecane	ND	0.10	mg/Kg wet							
n-Eicosane	ND	0.10	mg/Kg wet							
n-Hexacosane	ND	0.10	mg/Kg wet							
n-Hexadecane	ND	0.10	mg/Kg wet							
n-Hexatriacontane	ND	0.10	mg/Kg wet							
n-Nonadecane	ND	0.10	mg/Kg wet							
n-Nonane	ND	0.10	mg/Kg wet							
n-Octacosane	ND	0.10	mg/Kg wet							
n-Octadecane	ND	0.10	mg/Kg wet							
n-Tetracosane	ND	0.10	mg/Kg wet							
n-Tetradecane	ND	0.10	mg/Kg wet							
n-Triacontane	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.22*		mg/Kg wet	4.99		64.5	40-140			
Surrogate: o-Terphenyl (OTP)	*3.50*		mg/Kg wet	5.00		69.9	40-140			
Surrogate: 2-Bromonaphthalene	*3.73*		mg/Kg wet	5.00		74.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4.24*		mg/Kg wet	5.00		84.8	40-140			
LCS (B062777-BS1)				Prepared & Analyzed: 11/14/12						
Acenaphthene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140			
Acenaphthylene	3.96	0.10	mg/Kg wet	5.00		79.2	40-140			
Anthracene	4.33	0.10	mg/Kg wet	5.00		86.6	40-140			
Benzo(a)anthracene	4.30	0.10	mg/Kg wet	5.00		86.0	40-140			
Benzo(a)pyrene	4.06	0.10	mg/Kg wet	5.00		81.2	40-140			
Benzo(b)fluoranthene	4.27	0.10	mg/Kg wet	5.00		85.5	40-140			
Benzo(g,h,i)perylene	4.47	0.10	mg/Kg wet	5.00		89.4	40-140			
Benzo(k)fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.4	40-140			
Chrysene	4.02	0.10	mg/Kg wet	5.00		80.4	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062777 - SW-846 3546										
LCS (B062777-BS1)				Prepared & Analyzed: 11/14/12						
Dibenz(a,h)anthracene	4.51	0.10	mg/Kg wet	5.00		90.1	40-140			
Fluoranthene	4.27	0.10	mg/Kg wet	5.00		85.3	40-140			
Fluorene	4.15	0.10	mg/Kg wet	5.00		83.0	40-140			
Indeno(1,2,3-cd)pyrene	4.50	0.10	mg/Kg wet	5.00		89.9	40-140			
2-Methylnaphthalene	3.74	0.10	mg/Kg wet	5.00		74.8	40-140			
Naphthalene	3.38	0.10	mg/Kg wet	5.00		67.5	40-140			
Phenanthrene	4.27	0.10	mg/Kg wet	5.00		85.4	40-140			
Pyrene	4.16	0.10	mg/Kg wet	5.00		83.2	40-140			
n-Decane	2.49	0.10	mg/Kg wet	5.00		49.8	40-140			
n-Docosane	4.25	0.10	mg/Kg wet	5.00		85.0	40-140			
n-Dodecane	3.08	0.10	mg/Kg wet	5.00		61.6	40-140			
n-Eicosane	4.20	0.10	mg/Kg wet	5.00		84.1	40-140			
n-Hexacosane	4.13	0.10	mg/Kg wet	5.00		82.6	40-140			
n-Hexadecane	4.00	0.10	mg/Kg wet	5.00		80.1	40-140			
n-Hexatriacontane	4.03	0.10	mg/Kg wet	5.00		80.5	40-140			
n-Nonadecane	4.23	0.10	mg/Kg wet	5.00		84.5	40-140			
n-Nonane	1.77	0.10	mg/Kg wet	5.00		35.5	30-140			
n-Octacosane	3.95	0.10	mg/Kg wet	5.00		79.0	40-140			
n-Octadecane	4.17	0.10	mg/Kg wet	5.00		83.5	40-140			
n-Tetracosane	4.20	0.10	mg/Kg wet	5.00		83.9	40-140			
n-Tetradecane	3.60	0.10	mg/Kg wet	5.00		72.0	40-140			
n-Triacontane	4.04	0.10	mg/Kg wet	5.00		80.9	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.02*		mg/Kg wet	4.99		80.6	40-140			
Surrogate: o-Terphenyl (OTP)	*4.25*		mg/Kg wet	5.00		85.0	40-140			
Surrogate: 2-Bromonaphthalene	*4.18*		mg/Kg wet	5.00		83.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4.89*		mg/Kg wet	5.00		97.8	40-140			
LCS Dup (B062777-BSD1)				Prepared & Analyzed: 11/14/12						
Acenaphthene	4.25	0.10	mg/Kg wet	5.00		85.1	40-140	6.12	25	
Acenaphthylene	4.24	0.10	mg/Kg wet	5.00		84.8	40-140	6.85	25	
Anthracene	4.58	0.10	mg/Kg wet	5.00		91.7	40-140	5.72	25	
Benzo(a)anthracene	4.56	0.10	mg/Kg wet	5.00		91.2	40-140	5.83	25	
Benzo(a)pyrene	4.33	0.10	mg/Kg wet	5.00		86.6	40-140	6.37	25	
Benzo(b)fluoranthene	4.51	0.10	mg/Kg wet	5.00		90.2	40-140	5.32	25	
Benzo(g,h,i)perylene	4.76	0.10	mg/Kg wet	5.00		95.2	40-140	6.29	25	
Benzo(k)fluoranthene	4.53	0.10	mg/Kg wet	5.00		90.6	40-140	7.01	25	
Chrysene	4.28	0.10	mg/Kg wet	5.00		85.7	40-140	6.33	25	
Dibenz(a,h)anthracene	4.81	0.10	mg/Kg wet	5.00		96.1	40-140	6.49	25	
Fluoranthene	4.48	0.10	mg/Kg wet	5.00		89.7	40-140	5.00	25	
Fluorene	4.44	0.10	mg/Kg wet	5.00		88.7	40-140	6.63	25	
Indeno(1,2,3-cd)pyrene	4.77	0.10	mg/Kg wet	5.00		95.4	40-140	5.93	25	
2-Methylnaphthalene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140	6.69	25	
Naphthalene	3.62	0.10	mg/Kg wet	5.00		72.4	40-140	6.89	25	
Phenanthrene	4.54	0.10	mg/Kg wet	5.00		90.7	40-140	6.04	25	
Pyrene	4.37	0.10	mg/Kg wet	5.00		87.3	40-140	4.84	25	
n-Decane	2.55	0.10	mg/Kg wet	5.00		51.0	40-140	2.35	25	
n-Docosane	4.23	0.10	mg/Kg wet	5.00		84.6	40-140	0.462	25	
n-Dodecane	3.13	0.10	mg/Kg wet	5.00		62.6	40-140	1.52	25	
n-Eicosane	4.16	0.10	mg/Kg wet	5.00		83.3	40-140	0.935	25	
n-Hexacosane	4.12	0.10	mg/Kg wet	5.00		82.3	40-140	0.291	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062777 - SW-846 3546										
LCS Dup (B062777-BSD1)				Prepared & Analyzed: 11/14/12						
n-Hexadecane	3.99	0.10	mg/Kg wet	5.00		79.8	40-140	0.338	25	
n-Hexatriacontane	4.11	0.10	mg/Kg wet	5.00		82.3	40-140	2.14	25	
n-Nonadecane	4.18	0.10	mg/Kg wet	5.00		83.7	40-140	1.01	25	
n-Nonane	1.84	0.10	mg/Kg wet	5.00		36.9	30-140	3.82	25	
n-Octacosane	3.95	0.10	mg/Kg wet	5.00		79.0	40-140	0.0607	25	
n-Octadecane	4.15	0.10	mg/Kg wet	5.00		83.0	40-140	0.591	25	
n-Tetracosane	4.17	0.10	mg/Kg wet	5.00		83.4	40-140	0.588	25	
n-Tetradecane	3.64	0.10	mg/Kg wet	5.00		72.8	40-140	1.05	25	
n-Triacontane	4.04	0.10	mg/Kg wet	5.00		80.8	40-140	0.0940	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.90*		mg/Kg wet	4.99		78.1	40-140			
Surrogate: o-Terphenyl (OTP)	*4.38*		mg/Kg wet	5.00		87.7	40-140			
Surrogate: 2-Bromonaphthalene	*4.35*		mg/Kg wet	5.00		87.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.97*		mg/Kg wet	5.00		99.4	40-140			
Matrix Spike (B062777-MS1)		**Source: 12K0347-01**		Prepared: 11/14/12 Analyzed: 11/15/12						
C9-C18 Aliphatics	20.2	11	mg/Kg dry	33.2	2.75	52.7	40-140			
C19-C36 Aliphatics	39.4	11	mg/Kg dry	44.3	8.14	70.6	40-140			
Unadjusted C11-C22 Aromatics	74.9	11	mg/Kg dry	94.1	10.7	68.2	40-140			
Acenaphthene	3.58	0.11	mg/Kg dry	5.53	0.00	64.6	40-140			
Acenaphthylene	3.55	0.11	mg/Kg dry	5.53	0.00	64.1	40-140			
Anthracene	3.60	0.11	mg/Kg dry	5.53	0.00	65.1	40-140			
Benzo(a)anthracene	3.56	0.11	mg/Kg dry	5.53	0.00	64.3	40-140			
Benzo(a)pyrene	3.72	0.11	mg/Kg dry	5.53	0.00	67.3	40-140			
Benzo(b)fluoranthene	3.56	0.11	mg/Kg dry	5.53	0.00	64.4	40-140			
Benzo(g,h,i)perylene	3.63	0.11	mg/Kg dry	5.53	0.00	65.6	40-140			
Benzo(k)fluoranthene	3.44	0.11	mg/Kg dry	5.53	0.00	62.2	40-140			
Chrysene	3.34	0.11	mg/Kg dry	5.53	0.00	60.3	40-140			
Dibenz(a,h)anthracene	3.61	0.11	mg/Kg dry	5.53	0.00	65.3	40-140			
Fluoranthene	3.66	0.11	mg/Kg dry	5.53	0.139	63.5	40-140			
Fluorene	3.65	0.11	mg/Kg dry	5.53	0.00	66.0	40-140			
Indeno(1,2,3-cd)pyrene	3.63	0.11	mg/Kg dry	5.53	0.00	65.6	40-140			
2-Methylnaphthalene	3.47	0.11	mg/Kg dry	5.53	0.00	62.7	40-140			
Naphthalene	3.18	0.11	mg/Kg dry	5.53	0.00	57.5	40-140			
Phenanthrene	3.70	0.11	mg/Kg dry	5.53	0.00	66.8	40-140			
Pyrene	3.55	0.11	mg/Kg dry	5.53	0.134	61.8	40-140			
n-Nonane	1.67	0.11	mg/Kg dry	5.53	0.00	30.2	30-140			
Surrogate: Chlorooctadecane (COD)	*3.23*		mg/Kg dry	5.52		58.5	40-140			
Surrogate: o-Terphenyl (OTP)	*3.46*		mg/Kg dry	5.53		62.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.71*		mg/Kg dry	5.53		85.0	40-140			
Surrogate: 2-Fluorobiphenyl	*5.35*		mg/Kg dry	5.53		96.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062777 - SW-846 3546										
Matrix Spike Dup (B062777-MSD1)		**Source: 12K0347-01**		Prepared: 11/14/12 Analyzed: 11/15/12						
C9-C18 Aliphatics	23.3	11	mg/Kg dry	33.2	2.75	61.8	40-140	13.9	50	
C19-C36 Aliphatics	45.0	11	mg/Kg dry	44.3	8.14	83.2	40-140	13.2	50	
Unadjusted C11-C22 Aromatics	74.8	11	mg/Kg dry	94.1	10.7	68.1	40-140	0.139	50	
Acenaphthene	3.59	0.11	mg/Kg dry	5.53	0.00	64.9	40-140	0.380	50	
Acenaphthylene	3.57	0.11	mg/Kg dry	5.53	0.00	64.5	40-140	0.550	50	
Anthracene	3.68	0.11	mg/Kg dry	5.53	0.00	66.6	40-140	2.20	50	
Benzo(a)anthracene	3.61	0.11	mg/Kg dry	5.53	0.00	65.2	40-140	1.44	50	
Benzo(a)pyrene	3.75	0.11	mg/Kg dry	5.53	0.00	67.8	40-140	0.735	50	
Benzo(b)fluoranthene	3.61	0.11	mg/Kg dry	5.53	0.00	65.2	40-140	1.37	50	
Benzo(g,h,i)perylene	3.67	0.11	mg/Kg dry	5.53	0.00	66.4	40-140	1.23	50	
Benzo(k)fluoranthene	3.47	0.11	mg/Kg dry	5.53	0.00	62.8	40-140	0.954	50	
Chrysene	3.39	0.11	mg/Kg dry	5.53	0.00	61.2	40-140	1.50	50	
Dibenz(a,h)anthracene	3.65	0.11	mg/Kg dry	5.53	0.00	65.9	40-140	1.00	50	
Fluoranthene	3.70	0.11	mg/Kg dry	5.53	0.139	64.4	40-140	1.29	50	
Fluorene	3.70	0.11	mg/Kg dry	5.53	0.00	66.8	40-140	1.23	50	
Indeno(1,2,3-cd)pyrene	3.68	0.11	mg/Kg dry	5.53	0.00	66.5	40-140	1.37	50	
2-Methylnaphthalene	3.40	0.11	mg/Kg dry	5.53	0.00	61.5	40-140	2.00	50	
Naphthalene	3.08	0.11	mg/Kg dry	5.53	0.00	55.7	40-140	3.07	50	
Phenanthrene	3.75	0.11	mg/Kg dry	5.53	0.00	67.8	40-140	1.56	50	
Pyrene	3.61	0.11	mg/Kg dry	5.53	0.134	62.8	40-140	1.59	50	
n-Nonane	1.91	0.11	mg/Kg dry	5.53	0.00	34.5	30-140	13.2	50	
Surrogate: Chlorooctadecane (COD)	*3.76*		mg/Kg dry	5.52		68.1	40-140			
Surrogate: o-Terphenyl (OTP)	*3.52*		mg/Kg dry	5.53		63.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.18*		mg/Kg dry	5.53		75.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4.79*		mg/Kg dry	5.53		86.6	40-140			
Batch B062789 - SW-846 3546										
Blank (B062789-BLK1)				Prepared: 11/14/12 Analyzed: 11/15/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.28*		mg/Kg wet	4.99		85.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.33*		mg/Kg wet	5.00		66.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062789 - SW-846 3546										
Blank (B062789-BLK1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Surrogate: 2-Bromonaphthalene	*3.99*		mg/Kg wet	5.00		79.8	40-140			
Surrogate: 2-Fluorobiphenyl	*4.34*		mg/Kg wet	5.00		86.8	40-140			
LCS (B062789-BS1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Acenaphthene	3.32	0.10	mg/Kg wet	5.00		66.3	40-140			
Acenaphthylene	3.29	0.10	mg/Kg wet	5.00		65.7	40-140			
Anthracene	3.68	0.10	mg/Kg wet	5.00		73.5	40-140			
Benzo(a)anthracene	3.84	0.10	mg/Kg wet	5.00		76.7	40-140			
Benzo(a)pyrene	3.53	0.10	mg/Kg wet	5.00		70.6	40-140			
Benzo(b)fluoranthene	3.76	0.10	mg/Kg wet	5.00		75.1	40-140			
Benzo(g,h,i)perylene	3.78	0.10	mg/Kg wet	5.00		75.5	40-140			
Benzo(k)fluoranthene	3.73	0.10	mg/Kg wet	5.00		74.6	40-140			
Chrysene	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
Dibenz(a,h)anthracene	3.85	0.10	mg/Kg wet	5.00		77.1	40-140			
Fluoranthene	3.70	0.10	mg/Kg wet	5.00		73.9	40-140			
Fluorene	3.40	0.10	mg/Kg wet	5.00		68.0	40-140			
Indeno(1,2,3-cd)pyrene	3.82	0.10	mg/Kg wet	5.00		76.4	40-140			
2-Methylnaphthalene	3.32	0.10	mg/Kg wet	5.00		66.4	40-140			
Naphthalene	3.07	0.10	mg/Kg wet	5.00		61.3	40-140			
Phenanthrene	3.61	0.10	mg/Kg wet	5.00		72.3	40-140			
Pyrene	3.61	0.10	mg/Kg wet	5.00		72.3	40-140			
n-Decane	2.68	0.10	mg/Kg wet	5.00		53.6	40-140			
n-Docosane	4.48	0.10	mg/Kg wet	5.00		89.6	40-140			
n-Dodecane	3.42	0.10	mg/Kg wet	5.00		68.3	40-140			
n-Eicosane	4.56	0.10	mg/Kg wet	5.00		91.2	40-140			
n-Hexacosane	4.24	0.10	mg/Kg wet	5.00		84.8	40-140			
n-Hexadecane	4.29	0.10	mg/Kg wet	5.00		85.7	40-140			
n-Hexatriacontane	4.35	0.10	mg/Kg wet	5.00		87.0	40-140			
n-Nonadecane	4.46	0.10	mg/Kg wet	5.00		89.1	40-140			
n-Nonane	1.94	0.10	mg/Kg wet	5.00		38.8	30-140			
n-Octacosane	4.08	0.10	mg/Kg wet	5.00		81.6	40-140			
n-Octadecane	4.54	0.10	mg/Kg wet	5.00		90.7	40-140			
n-Tetracosane	4.37	0.10	mg/Kg wet	5.00		87.3	40-140			
n-Tetradecane	3.84	0.10	mg/Kg wet	5.00		76.8	40-140			
n-Triacontane	4.08	0.10	mg/Kg wet	5.00		81.5	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.38*		mg/Kg wet	4.99		87.8	40-140			
Surrogate: o-Terphenyl (OTP)	*3.48*		mg/Kg wet	5.00		69.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.00*		mg/Kg wet	5.00		80.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.34*		mg/Kg wet	5.00		86.8	40-140			
LCS Dup (B062789-BSD1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Acenaphthene	3.19	0.10	mg/Kg wet	5.00		63.9	40-140	3.80	25	
Acenaphthylene	3.17	0.10	mg/Kg wet	5.00		63.3	40-140	3.73	25	
Anthracene	3.48	0.10	mg/Kg wet	5.00		69.5	40-140	5.60	25	
Benzo(a)anthracene	3.63	0.10	mg/Kg wet	5.00		72.7	40-140	5.39	25	
Benzo(a)pyrene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	5.56	25	
Benzo(b)fluoranthene	3.57	0.10	mg/Kg wet	5.00		71.3	40-140	5.16	25	
Benzo(g,h,i)perylene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	12.2	25	
Benzo(k)fluoranthene	3.53	0.10	mg/Kg wet	5.00		70.6	40-140	5.45	25	
Chrysene	3.38	0.10	mg/Kg wet	5.00		67.5	40-140	6.11	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062789 - SW-846 3546											
LCS Dup (B062789-BSD1)				Prepared: 11/14/12 Analyzed: 11/15/12							
Dibenz(a,h)anthracene	3.54	0.10	mg/Kg wet	5.00		70.9		40-140	8.40	25	
Fluoranthene	3.52	0.10	mg/Kg wet	5.00		70.3		40-140	5.03	25	
Fluorene	3.27	0.10	mg/Kg wet	5.00		65.3		40-140	4.00	25	
Indeno(1,2,3-cd)pyrene	3.61	0.10	mg/Kg wet	5.00		72.2		40-140	5.53	25	
2-Methylnaphthalene	3.23	0.10	mg/Kg wet	5.00		64.6		40-140	2.67	25	
Naphthalene	3.00	0.10	mg/Kg wet	5.00		60.0		40-140	2.12	25	
Phenanthrene	3.43	0.10	mg/Kg wet	5.00		68.5		40-140	5.28	25	
Pyrene	3.42	0.10	mg/Kg wet	5.00		68.5		40-140	5.37	25	
n-Decane	2.67	0.10	mg/Kg wet	5.00		53.5		40-140	0.273	25	
n-Docosane	4.48	0.10	mg/Kg wet	5.00		89.6		40-140	0.0714	25	
n-Dodecane	3.40	0.10	mg/Kg wet	5.00		67.9		40-140	0.590	25	
n-Eicosane	4.55	0.10	mg/Kg wet	5.00		91.0		40-140	0.198	25	
n-Hexacosane	4.23	0.10	mg/Kg wet	5.00		84.7		40-140	0.229	25	
n-Hexadecane	4.23	0.10	mg/Kg wet	5.00		84.6		40-140	1.33	25	
n-Hexatriacontane	4.43	0.10	mg/Kg wet	5.00		88.7		40-140	1.95	25	
n-Nonadecane	4.44	0.10	mg/Kg wet	5.00		88.9		40-140	0.303	25	
n-Nonane	1.84	0.10	mg/Kg wet	5.00		36.7		30-140	5.63	25	
n-Octacosane	4.07	0.10	mg/Kg wet	5.00		81.3		40-140	0.302	25	
n-Octadecane	4.51	0.10	mg/Kg wet	5.00		90.2		40-140	0.626	25	
n-Tetracosane	4.38	0.10	mg/Kg wet	5.00		87.5		40-140	0.222	25	
n-Tetradecane	3.83	0.10	mg/Kg wet	5.00		76.5		40-140	0.376	25	
n-Triacontane	4.05	0.10	mg/Kg wet	5.00		81.0		40-140	0.583	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*4.29*		mg/Kg wet	4.99		86.0		40-140			
Surrogate: o-Terphenyl (OTP)	*3.29*		mg/Kg wet	5.00		65.7		40-140			
Surrogate: 2-Bromonaphthalene	*3.78*		mg/Kg wet	5.00		75.7		40-140			
Surrogate: 2-Fluorobiphenyl	*4.07*		mg/Kg wet	5.00		81.3		40-140			
Matrix Spike (B062789-MS1)		**Source: 12K0347-21**		Prepared: 11/14/12 Analyzed: 11/15/12							
C9-C18 Aliphatics	27.3	12	mg/Kg dry	35.7	8.12	53.7		40-140			MS-09
C19-C36 Aliphatics	53.8	12	mg/Kg dry	47.6	8.17	95.7		40-140			
Unadjusted C11-C22 Aromatics	75.0	12	mg/Kg dry	101	10.0	64.1		40-140			
Acenaphthene	3.31	0.12	mg/Kg dry	5.96	0.00	55.6		40-140			
Acenaphthylene	3.23	0.12	mg/Kg dry	5.96	0.00	54.2		40-140			
Anthracene	3.75	0.12	mg/Kg dry	5.96	0.00	63.0		40-140			
Benzo(a)anthracene	3.74	0.12	mg/Kg dry	5.96	0.00	62.9		40-140			
Benzo(a)pyrene	3.50	0.12	mg/Kg dry	5.96	0.00	58.7		40-140			
Benzo(b)fluoranthene	3.59	0.12	mg/Kg dry	5.96	0.00	60.3		40-140			
Benzo(g,h,i)perylene	3.39	0.12	mg/Kg dry	5.96	0.00	56.9		40-140			
Benzo(k)fluoranthene	3.48	0.12	mg/Kg dry	5.96	0.00	58.5		40-140			
Chrysene	3.39	0.12	mg/Kg dry	5.96	0.00	56.9		40-140			
Dibenz(a,h)anthracene	3.41	0.12	mg/Kg dry	5.96	0.00	57.2		40-140			
Fluoranthene	3.80	0.12	mg/Kg dry	5.96	0.00	63.8		40-140			
Fluorene	3.50	0.12	mg/Kg dry	5.96	0.00	58.8		40-140			
Indeno(1,2,3-cd)pyrene	3.48	0.12	mg/Kg dry	5.96	0.00	58.4		40-140			
2-Methylnaphthalene	3.07	0.12	mg/Kg dry	5.96	0.00	51.5		40-140			
Naphthalene	2.67	0.12	mg/Kg dry	5.96	0.00	44.9		40-140			
Phenanthrene	3.78	0.12	mg/Kg dry	5.96	0.00	63.5		40-140			
Pyrene	3.67	0.12	mg/Kg dry	5.96	0.00	61.6		40-140			
n-Nonane	1.53	0.12	mg/Kg dry	5.96	0.00	**25.8**	*	30-140			MS-09
Surrogate: Chlorooctadecane (COD)	*4.87*		mg/Kg dry	5.94		82.0		40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062789 - SW-846 3546											
Matrix Spike (B062789-MS1)		**Source: 12K0347-21**		Prepared: 11/14/12 Analyzed: 11/15/12							
Surrogate: o-Terphenyl (OTP)	*3.81*		mg/Kg dry	5.96		64.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.49*		mg/Kg dry	5.96		75.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.89*		mg/Kg dry	5.96		82.0		40-140			
Matrix Spike Dup (B062789-MSD1)		**Source: 12K0347-21**		Prepared: 11/14/12 Analyzed: 11/15/12							
C9-C18 Aliphatics	28.2	12	mg/Kg dry	36.3	8.12	55.4		40-140	3.24	50	MS-09
C19-C36 Aliphatics	45.1	12	mg/Kg dry	48.4	8.17	76.4		40-140	17.6	50	
Unadjusted C11-C22 Aromatics	70.8	12	mg/Kg dry	103	10.0	59.1		40-140	5.70	50	
Acenaphthene	3.39	0.12	mg/Kg dry	6.04	0.00	56.0		40-140	2.19	50	
Acenaphthylene	3.30	0.12	mg/Kg dry	6.04	0.00	54.5		40-140	2.08	50	
Anthracene	3.76	0.12	mg/Kg dry	6.04	0.00	62.2		40-140	0.210	50	
Benzo(a)anthracene	3.73	0.12	mg/Kg dry	6.04	0.00	61.7		40-140	0.430	50	
Benzo(a)pyrene	3.50	0.12	mg/Kg dry	6.04	0.00	57.8		40-140	0.0802	50	
Benzo(b)fluoranthene	3.58	0.12	mg/Kg dry	6.04	0.00	59.2		40-140	0.399	50	
Benzo(g,h,i)perylene	3.36	0.12	mg/Kg dry	6.04	0.00	55.6		40-140	0.874	50	
Benzo(k)fluoranthene	3.46	0.12	mg/Kg dry	6.04	0.00	57.2		40-140	0.684	50	
Chrysene	3.37	0.12	mg/Kg dry	6.04	0.00	55.8		40-140	0.602	50	
Dibenz(a,h)anthracene	3.35	0.12	mg/Kg dry	6.04	0.00	55.4		40-140	1.67	50	
Fluoranthene	3.77	0.12	mg/Kg dry	6.04	0.00	62.4		40-140	0.719	50	
Fluorene	3.57	0.12	mg/Kg dry	6.04	0.00	59.0		40-140	1.87	50	
Indeno(1,2,3-cd)pyrene	3.45	0.12	mg/Kg dry	6.04	0.00	57.1		40-140	0.771	50	
2-Methylnaphthalene	3.16	0.12	mg/Kg dry	6.04	0.00	52.2		40-140	2.88	50	
Naphthalene	2.74	0.12	mg/Kg dry	6.04	0.00	45.3		40-140	2.33	50	
Phenanthrene	3.77	0.12	mg/Kg dry	6.04	0.00	62.4		40-140	0.242	50	
Pyrene	3.66	0.12	mg/Kg dry	6.04	0.00	60.5		40-140	0.333	50	
n-Nonane	1.61	0.12	mg/Kg dry	6.04	0.00	**26.6**	*	30-140	4.88	50	MS-09
Surrogate: Chlorooctadecane (COD)	*4.64*		mg/Kg dry	6.03		76.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.61*		mg/Kg dry	6.04		59.7		40-140			
Surrogate: 2-Bromonaphthalene	*4.55*		mg/Kg dry	6.04		75.2		40-140			
Surrogate: 2-Fluorobiphenyl	*4.93*		mg/Kg dry	6.04		81.6		40-140			
Batch B062803 - SW-846 3546											
Blank (B062803-BLK1)				Prepared: 11/14/12 Analyzed: 11/16/12							
C9-C18 Aliphatics	ND	10	mg/Kg wet								
C19-C36 Aliphatics	ND	10	mg/Kg wet								
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062803 - SW-846 3546										
Blank (B062803-BLK1)				Prepared: 11/14/12 Analyzed: 11/16/12						
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
n-Decane	ND	0.10	mg/Kg wet							
n-Docosane	ND	0.10	mg/Kg wet							
n-Dodecane	ND	0.10	mg/Kg wet							
n-Eicosane	ND	0.10	mg/Kg wet							
n-Hexacosane	ND	0.10	mg/Kg wet							
n-Hexadecane	ND	0.10	mg/Kg wet							
n-Hexatriacontane	ND	0.10	mg/Kg wet							
n-Nonadecane	ND	0.10	mg/Kg wet							
n-Nonane	ND	0.10	mg/Kg wet							
n-Octacosane	ND	0.10	mg/Kg wet							
n-Octadecane	ND	0.10	mg/Kg wet							
n-Tetracosane	ND	0.10	mg/Kg wet							
n-Tetradecane	ND	0.10	mg/Kg wet							
n-Triacontane	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.27*		mg/Kg wet	4.99		85.6	40-140			
Surrogate: o-Terphenyl (OTP)	*3.20*		mg/Kg wet	5.00		64.0	40-140			
Surrogate: 2-Bromonaphthalene	*3.49*		mg/Kg wet	5.00		69.7	40-140			
Surrogate: 2-Fluorobiphenyl	*3.71*		mg/Kg wet	5.00		74.1	40-140			
LCS (B062803-BS1)				Prepared: 11/14/12 Analyzed: 11/16/12						
Acenaphthene	3.29	0.10	mg/Kg wet	5.00		65.8	40-140			
Acenaphthylene	3.25	0.10	mg/Kg wet	5.00		65.0	40-140			
Anthracene	3.65	0.10	mg/Kg wet	5.00		73.0	40-140			
Benzo(a)anthracene	3.78	0.10	mg/Kg wet	5.00		75.6	40-140			
Benzo(a)pyrene	3.51	0.10	mg/Kg wet	5.00		70.2	40-140			
Benzo(b)fluoranthene	3.74	0.10	mg/Kg wet	5.00		74.9	40-140			
Benzo(g,h,i)perylene	3.77	0.10	mg/Kg wet	5.00		75.4	40-140			
Benzo(k)fluoranthene	3.67	0.10	mg/Kg wet	5.00		73.4	40-140			
Chrysene	3.51	0.10	mg/Kg wet	5.00		70.2	40-140			
Dibenz(a,h)anthracene	3.79	0.10	mg/Kg wet	5.00		75.8	40-140			
Fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.6	40-140			
Fluorene	3.40	0.10	mg/Kg wet	5.00		67.9	40-140			
Indeno(1,2,3-cd)pyrene	3.81	0.10	mg/Kg wet	5.00		76.2	40-140			
2-Methylnaphthalene	3.26	0.10	mg/Kg wet	5.00		65.2	40-140			
Naphthalene	3.05	0.10	mg/Kg wet	5.00		60.9	40-140			
Phenanthrene	3.61	0.10	mg/Kg wet	5.00		72.3	40-140			
Pyrene	3.59	0.10	mg/Kg wet	5.00		71.9	40-140			
n-Decane	2.64	0.10	mg/Kg wet	5.00		52.8	40-140			
n-Docosane	4.49	0.10	mg/Kg wet	5.00		89.8	40-140			
n-Dodecane	3.32	0.10	mg/Kg wet	5.00		66.3	40-140			
n-Eicosane	4.59	0.10	mg/Kg wet	5.00		91.8	40-140			
n-Hexacosane	4.24	0.10	mg/Kg wet	5.00		84.7	40-140			
n-Hexadecane	4.34	0.10	mg/Kg wet	5.00		86.7	40-140			
n-Hexatriacontane	3.34	0.10	mg/Kg wet	5.00		66.9	40-140			
n-Nonadecane	4.47	0.10	mg/Kg wet	5.00		89.3	40-140			
n-Nonane	1.92	0.10	mg/Kg wet	5.00		38.5	30-140			
n-Octacosane	4.06	0.10	mg/Kg wet	5.00		81.3	40-140			
n-Octadecane	4.59	0.10	mg/Kg wet	5.00		91.8	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062803 - SW-846 3546										
LCS (B062803-BS1)				Prepared: 11/14/12 Analyzed: 11/16/12						
n-Tetracosane	4.36	0.10	mg/Kg wet	5.00		87.1	40-140			
n-Tetradecane	3.83	0.10	mg/Kg wet	5.00		76.6	40-140			
n-Triacontane	4.00	0.10	mg/Kg wet	5.00		80.1	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.32*		mg/Kg wet	4.99		86.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.48*		mg/Kg wet	5.00		69.7	40-140			
Surrogate: 2-Bromonaphthalene	*3.90*		mg/Kg wet	5.00		77.9	40-140			
Surrogate: 2-Fluorobiphenyl	*4.15*		mg/Kg wet	5.00		83.0	40-140			
LCS Dup (B062803-BSD1)				Prepared: 11/14/12 Analyzed: 11/16/12						
Acenaphthene	2.88	0.10	mg/Kg wet	5.00		57.5	40-140	13.4	25	
Acenaphthylene	2.85	0.10	mg/Kg wet	5.00		57.1	40-140	13.0	25	
Anthracene	3.27	0.10	mg/Kg wet	5.00		65.4	40-140	11.0	25	
Benzo(a)anthracene	3.40	0.10	mg/Kg wet	5.00		67.9	40-140	10.8	25	
Benzo(a)pyrene	3.15	0.10	mg/Kg wet	5.00		63.1	40-140	10.7	25	
Benzo(b)fluoranthene	3.31	0.10	mg/Kg wet	5.00		66.3	40-140	12.2	25	
Benzo(g,h,i)perylene	3.08	0.10	mg/Kg wet	5.00		61.7	40-140	20.1	25	
Benzo(k)fluoranthene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	9.45	25	
Chrysene	3.17	0.10	mg/Kg wet	5.00		63.5	40-140	10.0	25	
Dibenz(a,h)anthracene	3.31	0.10	mg/Kg wet	5.00		66.3	40-140	13.4	25	
Fluoranthene	3.23	0.10	mg/Kg wet	5.00		64.6	40-140	13.0	25	
Fluorene	2.98	0.10	mg/Kg wet	5.00		59.7	40-140	12.9	25	
Indeno(1,2,3-cd)pyrene	3.38	0.10	mg/Kg wet	5.00		67.7	40-140	11.8	25	
2-Methylnaphthalene	2.82	0.10	mg/Kg wet	5.00		56.5	40-140	14.4	25	
Naphthalene	2.58	0.10	mg/Kg wet	5.00		51.5	40-140	16.7	25	
Phenanthrene	3.15	0.10	mg/Kg wet	5.00		63.1	40-140	13.6	25	
Pyrene	3.15	0.10	mg/Kg wet	5.00		63.0	40-140	13.2	25	
n-Decane	2.31	0.10	mg/Kg wet	5.00		46.2	40-140	13.4	25	
n-Docosane	4.00	0.10	mg/Kg wet	5.00		80.1	40-140	11.4	25	
n-Dodecane	2.98	0.10	mg/Kg wet	5.00		59.5	40-140	10.8	25	
n-Eicosane	4.08	0.10	mg/Kg wet	5.00		81.6	40-140	11.7	25	
n-Hexacosane	3.79	0.10	mg/Kg wet	5.00		75.8	40-140	11.2	25	
n-Hexadecane	3.89	0.10	mg/Kg wet	5.00		77.8	40-140	10.9	25	
n-Hexatriacontane	2.88	0.10	mg/Kg wet	5.00		57.7	40-140	14.8	25	
n-Nonadecane	3.99	0.10	mg/Kg wet	5.00		79.8	40-140	11.2	25	
n-Nonane	1.64	0.10	mg/Kg wet	5.00		32.8	30-140	15.8	25	
n-Octacosane	3.64	0.10	mg/Kg wet	5.00		72.8	40-140	11.1	25	
n-Octadecane	4.08	0.10	mg/Kg wet	5.00		81.5	40-140	11.8	25	
n-Tetracosane	3.90	0.10	mg/Kg wet	5.00		78.0	40-140	11.1	25	
n-Tetradecane	3.46	0.10	mg/Kg wet	5.00		69.2	40-140	10.3	25	
n-Triacontane	3.57	0.10	mg/Kg wet	5.00		71.4	40-140	11.5	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.84*		mg/Kg wet	4.99		77.0	40-140			
Surrogate: o-Terphenyl (OTP)	*2.99*		mg/Kg wet	5.00		59.9	40-140			
Surrogate: 2-Bromonaphthalene	*3.53*		mg/Kg wet	5.00		70.6	40-140			
Surrogate: 2-Fluorobiphenyl	*3.86*		mg/Kg wet	5.00		77.3	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062943 - SW-846 3546										
Blank (B062943-BLK1)				Prepared: 11/15/12 Analyzed: 11/16/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.90*		mg/Kg wet	4.99		78.1	40-140			
Surrogate: o-Terphenyl (OTP)	*4.17*		mg/Kg wet	5.00		83.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.15*		mg/Kg wet	5.00		82.9	40-140			
Surrogate: 2-Fluorobiphenyl	*4.61*		mg/Kg wet	5.00		92.1	40-140			
LCS (B062943-BS1)				Prepared: 11/15/12 Analyzed: 11/16/12						
Acenaphthene	3.85	0.10	mg/Kg wet	5.00		76.9	40-140			
Acenaphthylene	3.80	0.10	mg/Kg wet	5.00		76.1	40-140			
Anthracene	4.13	0.10	mg/Kg wet	5.00		82.7	40-140			
Benzo(a)anthracene	4.19	0.10	mg/Kg wet	5.00		83.9	40-140			
Benzo(a)pyrene	3.95	0.10	mg/Kg wet	5.00		79.0	40-140			
Benzo(b)fluoranthene	4.16	0.10	mg/Kg wet	5.00		83.3	40-140			
Benzo(g,h,i)perylene	4.38	0.10	mg/Kg wet	5.00		87.7	40-140			
Benzo(k)fluoranthene	4.13	0.10	mg/Kg wet	5.00		82.6	40-140			
Chrysene	3.92	0.10	mg/Kg wet	5.00		78.5	40-140			
Dibenz(a,h)anthracene	4.41	0.10	mg/Kg wet	5.00		88.1	40-140			
Fluoranthene	4.13	0.10	mg/Kg wet	5.00		82.6	40-140			
Fluorene	3.93	0.10	mg/Kg wet	5.00		78.7	40-140			
Indeno(1,2,3-cd)pyrene	4.38	0.10	mg/Kg wet	5.00		87.6	40-140			
2-Methylnaphthalene	3.69	0.10	mg/Kg wet	5.00		73.8	40-140			
Naphthalene	3.38	0.10	mg/Kg wet	5.00		67.6	40-140			
Phenanthrene	4.10	0.10	mg/Kg wet	5.00		82.0	40-140			
Pyrene	4.04	0.10	mg/Kg wet	5.00		80.7	40-140			
n-Decane	2.52	0.10	mg/Kg wet	5.00		50.5	40-140			
n-Docosane	4.34	0.10	mg/Kg wet	5.00		86.8	40-140			
n-Dodecane	3.22	0.10	mg/Kg wet	5.00		64.4	40-140			
n-Eicosane	4.29	0.10	mg/Kg wet	5.00		85.7	40-140			
n-Hexacosane	4.25	0.10	mg/Kg wet	5.00		84.9	40-140			
n-Hexadecane	4.06	0.10	mg/Kg wet	5.00		81.2	40-140			
n-Hexatriacontane	3.37	0.10	mg/Kg wet	5.00		67.4	40-140			
n-Nonadecane	4.32	0.10	mg/Kg wet	5.00		86.4	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062943 - SW-846 3546										
LCS (B062943-BS1)				Prepared: 11/15/12 Analyzed: 11/16/12						
n-Nonane	1.74	0.10	mg/Kg wet	5.00		34.9	30-140			
n-Octacosane	4.08	0.10	mg/Kg wet	5.00		81.5	40-140			
n-Octadecane	4.25	0.10	mg/Kg wet	5.00		85.1	40-140			
n-Tetracosane	4.30	0.10	mg/Kg wet	5.00		86.0	40-140			
n-Tetradecane	3.66	0.10	mg/Kg wet	5.00		73.2	40-140			
n-Triacontane	4.15	0.10	mg/Kg wet	5.00		83.1	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.06*		mg/Kg wet	4.99		81.3	40-140			
Surrogate: o-Terphenyl (OTP)	*4.15*		mg/Kg wet	5.00		83.1	40-140			
Surrogate: 2-Bromonaphthalene	*4.44*		mg/Kg wet	5.00		88.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4.95*		mg/Kg wet	5.00		98.9	40-140			
LCS Dup (B062943-BSD1)				Prepared: 11/15/12 Analyzed: 11/16/12						
Acenaphthene	3.73	0.10	mg/Kg wet	5.00		74.7	40-140	2.98	25	
Acenaphthylene	3.70	0.10	mg/Kg wet	5.00		73.9	40-140	2.86	25	
Anthracene	4.05	0.10	mg/Kg wet	5.00		81.0	40-140	2.05	25	
Benzo(a)anthracene	4.13	0.10	mg/Kg wet	5.00		82.6	40-140	1.49	25	
Benzo(a)pyrene	3.90	0.10	mg/Kg wet	5.00		77.9	40-140	1.38	25	
Benzo(b)fluoranthene	4.10	0.10	mg/Kg wet	5.00		82.0	40-140	1.56	25	
Benzo(g,h,i)perylene	4.29	0.10	mg/Kg wet	5.00		85.7	40-140	2.23	25	
Benzo(k)fluoranthene	4.06	0.10	mg/Kg wet	5.00		81.3	40-140	1.58	25	
Chrysene	3.87	0.10	mg/Kg wet	5.00		77.3	40-140	1.47	25	
Dibenz(a,h)anthracene	4.36	0.10	mg/Kg wet	5.00		87.2	40-140	1.08	25	
Fluoranthene	4.05	0.10	mg/Kg wet	5.00		80.9	40-140	2.02	25	
Fluorene	3.84	0.10	mg/Kg wet	5.00		76.7	40-140	2.51	25	
Indeno(1,2,3-cd)pyrene	4.32	0.10	mg/Kg wet	5.00		86.4	40-140	1.36	25	
2-Methylnaphthalene	3.58	0.10	mg/Kg wet	5.00		71.6	40-140	3.00	25	
Naphthalene	3.28	0.10	mg/Kg wet	5.00		65.6	40-140	3.03	25	
Phenanthrene	4.01	0.10	mg/Kg wet	5.00		80.2	40-140	2.20	25	
Pyrene	3.95	0.10	mg/Kg wet	5.00		79.1	40-140	2.07	25	
n-Decane	2.48	0.10	mg/Kg wet	5.00		49.5	40-140	1.90	25	
n-Docosane	4.23	0.10	mg/Kg wet	5.00		84.7	40-140	2.43	25	
n-Dodecane	3.09	0.10	mg/Kg wet	5.00		61.8	40-140	4.13	25	
n-Eicosane	4.19	0.10	mg/Kg wet	5.00		83.8	40-140	2.21	25	
n-Hexacosane	4.14	0.10	mg/Kg wet	5.00		82.7	40-140	2.61	25	
n-Hexadecane	3.90	0.10	mg/Kg wet	5.00		78.1	40-140	3.88	25	
n-Hexatriacontane	3.23	0.10	mg/Kg wet	5.00		64.7	40-140	4.13	25	
n-Nonadecane	4.20	0.10	mg/Kg wet	5.00		84.0	40-140	2.74	25	
n-Nonane	1.72	0.10	mg/Kg wet	5.00		34.3	30-140	1.54	25	
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.3	40-140	2.84	25	
n-Octadecane	4.13	0.10	mg/Kg wet	5.00		82.6	40-140	2.93	25	
n-Tetracosane	4.19	0.10	mg/Kg wet	5.00		83.8	40-140	2.66	25	
n-Tetradecane	3.49	0.10	mg/Kg wet	5.00		69.8	40-140	4.71	25	
n-Triacontane	4.04	0.10	mg/Kg wet	5.00		80.8	40-140	2.80	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.96*		mg/Kg wet	4.99		79.4	40-140			
Surrogate: o-Terphenyl (OTP)	*4.00*		mg/Kg wet	5.00		79.9	40-140			
Surrogate: 2-Bromonaphthalene	*4.15*		mg/Kg wet	5.00		83.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.68*		mg/Kg wet	5.00		93.6	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062983 - SW-846 3546										
Blank (B062983-BLK1)				Prepared & Analyzed: 11/16/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.10*		mg/Kg wet	4.99		82.2	40-140			
Surrogate: o-Terphenyl (OTP)	*3.18*		mg/Kg wet	5.00		63.7	40-140			
Surrogate: 2-Bromonaphthalene	*3.75*		mg/Kg wet	5.00		75.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.04*		mg/Kg wet	5.00		80.8	40-140			
LCS (B062983-BS1)				Prepared & Analyzed: 11/16/12						
Acenaphthene	3.30	0.10	mg/Kg wet	5.00		66.0	40-140			
Acenaphthylene	3.24	0.10	mg/Kg wet	5.00		64.8	40-140			
Anthracene	3.60	0.10	mg/Kg wet	5.00		72.1	40-140			
Benzo(a)anthracene	3.66	0.10	mg/Kg wet	5.00		73.2	40-140			
Benzo(a)pyrene	3.40	0.10	mg/Kg wet	5.00		68.0	40-140			
Benzo(b)fluoranthene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140			
Benzo(g,h,i)perylene	3.72	0.10	mg/Kg wet	5.00		74.4	40-140			
Benzo(k)fluoranthene	3.55	0.10	mg/Kg wet	5.00		71.0	40-140			
Chrysene	3.39	0.10	mg/Kg wet	5.00		67.9	40-140			
Dibenz(a,h)anthracene	3.72	0.10	mg/Kg wet	5.00		74.5	40-140			
Fluoranthene	3.59	0.10	mg/Kg wet	5.00		71.7	40-140			
Fluorene	3.41	0.10	mg/Kg wet	5.00		68.2	40-140			
Indeno(1,2,3-cd)pyrene	3.73	0.10	mg/Kg wet	5.00		74.6	40-140			
2-Methylnaphthalene	3.19	0.10	mg/Kg wet	5.00		63.9	40-140			
Naphthalene	2.88	0.10	mg/Kg wet	5.00		57.6	40-140			
Phenanthrene	3.56	0.10	mg/Kg wet	5.00		71.3	40-140			
Pyrene	3.49	0.10	mg/Kg wet	5.00		69.9	40-140			
n-Decane	2.40	0.10	mg/Kg wet	5.00		47.9	40-140			
n-Docosane	4.34	0.10	mg/Kg wet	5.00		86.8	40-140			
n-Dodecane	3.14	0.10	mg/Kg wet	5.00		62.7	40-140			
n-Eicosane	4.43	0.10	mg/Kg wet	5.00		88.5	40-140			
n-Hexacosane	4.13	0.10	mg/Kg wet	5.00		82.7	40-140			
n-Hexadecane	4.25	0.10	mg/Kg wet	5.00		84.9	40-140			
n-Hexatriacontane	3.70	0.10	mg/Kg wet	5.00		74.0	40-140			
n-Nonadecane	4.34	0.10	mg/Kg wet	5.00		86.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062983 - SW-846 3546										
LCS (B062983-BS1)				Prepared & Analyzed: 11/16/12						
n-Nonane	1.67	0.10	mg/Kg wet	5.00		33.5	30-140			
n-Octacosane	3.98	0.10	mg/Kg wet	5.00		79.6	40-140			
n-Octadecane	4.42	0.10	mg/Kg wet	5.00		88.3	40-140			
n-Tetracosane	4.23	0.10	mg/Kg wet	5.00		84.6	40-140			
n-Tetradecane	3.75	0.10	mg/Kg wet	5.00		75.0	40-140			
n-Triacontane	3.96	0.10	mg/Kg wet	5.00		79.3	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.28*		mg/Kg wet	4.99		85.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.48*		mg/Kg wet	5.00		69.6	40-140			
Surrogate: 2-Bromonaphthalene	*3.90*		mg/Kg wet	5.00		78.1	40-140			
Surrogate: 2-Fluorobiphenyl	*4.18*		mg/Kg wet	5.00		83.6	40-140			
LCS Dup (B062983-BSD1)				Prepared & Analyzed: 11/16/12						
Acenaphthene	3.06	0.10	mg/Kg wet	5.00		61.1	40-140	7.63	25	
Acenaphthylene	3.01	0.10	mg/Kg wet	5.00		60.1	40-140	7.51	25	
Anthracene	3.38	0.10	mg/Kg wet	5.00		67.6	40-140	6.38	25	
Benzo(a)anthracene	3.46	0.10	mg/Kg wet	5.00		69.1	40-140	5.77	25	
Benzo(a)pyrene	3.20	0.10	mg/Kg wet	5.00		64.0	40-140	5.98	25	
Benzo(b)fluoranthene	3.44	0.10	mg/Kg wet	5.00		68.7	40-140	5.78	25	
Benzo(g,h,i)perylene	3.51	0.10	mg/Kg wet	5.00		70.2	40-140	5.82	25	
Benzo(k)fluoranthene	3.35	0.10	mg/Kg wet	5.00		67.0	40-140	5.87	25	
Chrysene	3.20	0.10	mg/Kg wet	5.00		64.0	40-140	5.80	25	
Dibenz(a,h)anthracene	3.51	0.10	mg/Kg wet	5.00		70.2	40-140	5.96	25	
Fluoranthene	3.38	0.10	mg/Kg wet	5.00		67.7	40-140	5.86	25	
Fluorene	3.17	0.10	mg/Kg wet	5.00		63.5	40-140	7.19	25	
Indeno(1,2,3-cd)pyrene	3.52	0.10	mg/Kg wet	5.00		70.3	40-140	5.92	25	
2-Methylnaphthalene	2.95	0.10	mg/Kg wet	5.00		58.9	40-140	8.07	25	
Naphthalene	2.64	0.10	mg/Kg wet	5.00		52.9	40-140	8.59	25	
Phenanthrene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	6.47	25	
Pyrene	3.29	0.10	mg/Kg wet	5.00		65.9	40-140	5.85	25	
n-Decane	2.16	0.10	mg/Kg wet	5.00		43.2	40-140	10.3	25	
n-Docosane	4.12	0.10	mg/Kg wet	5.00		82.3	40-140	5.28	25	
n-Dodecane	2.91	0.10	mg/Kg wet	5.00		58.2	40-140	7.57	25	
n-Eicosane	4.16	0.10	mg/Kg wet	5.00		83.3	40-140	6.11	25	
n-Hexacosane	3.90	0.10	mg/Kg wet	5.00		78.0	40-140	5.81	25	
n-Hexadecane	4.00	0.10	mg/Kg wet	5.00		80.0	40-140	5.95	25	
n-Hexatriacontane	3.48	0.10	mg/Kg wet	5.00		69.6	40-140	6.08	25	
n-Nonadecane	4.11	0.10	mg/Kg wet	5.00		82.2	40-140	5.42	25	
n-Nonane	1.52	0.10	mg/Kg wet	5.00		30.4	30-140	9.63	25	
n-Octacosane	3.75	0.10	mg/Kg wet	5.00		75.1	40-140	5.89	25	
n-Octadecane	4.16	0.10	mg/Kg wet	5.00		83.2	40-140	5.95	25	
n-Tetracosane	4.02	0.10	mg/Kg wet	5.00		80.4	40-140	5.14	25	
n-Tetradecane	3.51	0.10	mg/Kg wet	5.00		70.2	40-140	6.56	25	
n-Triacontane	3.73	0.10	mg/Kg wet	5.00		74.5	40-140	6.14	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.99*		mg/Kg wet	4.99		80.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.22*		mg/Kg wet	5.00		64.5	40-140			
Surrogate: 2-Bromonaphthalene	*3.95*		mg/Kg wet	5.00		79.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.30*		mg/Kg wet	5.00		85.9	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062582 - SW-846 3050B										
Blank (B062582-BLK1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B062582-BS1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	8080	5.0	mg/Kg wet	8360		96.6	48-152.5			
Antimony	81.6	5.0	mg/Kg wet	92.9		87.8	2.5-219.2			
Arsenic	98.1	5.0	mg/Kg wet	94.5		104	83.3-117.3			
Barium	172	5.0	mg/Kg wet	166		104	54.9-116.9			
Beryllium	57.6	0.50	mg/Kg wet	52.6		109	84.2-116.4			
Cadmium	59.1	0.50	mg/Kg wet	59.9		98.7	83.6-115.5			
Calcium	5990	15	mg/Kg wet	6160		97.2	83-117			
Chromium	71.8	0.99	mg/Kg wet	69.3		104	81.6-117.6			
Cobalt	103	5.0	mg/Kg wet	101		102	83.2-116.8			
Copper	84.9	0.99	mg/Kg wet	78.0		109	81.6-117.8			
Iron	12800	5.0	mg/Kg wet	12800		99.7	50.5-149.2			
Lead	90.2	1.5	mg/Kg wet	91.7		98.4	81.3-118.7			
Magnesium	2980	15	mg/Kg wet	3030		98.5	75.9-124.1			
Manganese	282	0.99	mg/Kg wet	283		99.8	82.5-117.5			
Nickel	57.0	0.99	mg/Kg wet	56.6		101	81.7-118.1			
Potassium	3870	200	mg/Kg wet	3820		101	72.5-127.2			
Selenium	159	9.9	mg/Kg wet	159		99.8	80.2-120.6			
Silver	32.7	0.99	mg/Kg wet	33.9		96.4	66.4-133.8			
Sodium	650	200	mg/Kg wet	652		99.7	73.7-126			
Thallium	116	5.0	mg/Kg wet	119		97.3	81.3-118.8			
Vanadium	60.3	2.0	mg/Kg wet	56.3		107	77.6-122.8			
Zinc	136	2.0	mg/Kg wet	137		99.4	82.2-117.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062582 - SW-846 3050B										
LCS (B062582-BS2)				Prepared: 11/10/12 Analyzed: 11/12/12						
Lead	0.808	0.72	mg/Kg wet	0.723		112	80-120			
LCS Dup (B062582-BSD1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	8230	5.0	mg/Kg wet	8360		98.4	48-152.5	1.81	30	
Antimony	80.1	5.0	mg/Kg wet	92.9		86.2	2.5-219.2	1.82	30	
Arsenic	96.3	5.0	mg/Kg wet	94.5		102	83.3-117.3	1.92	30	
Barium	171	5.0	mg/Kg wet	166		103	54.9-116.9	0.692	30	
Beryllium	58.0	0.50	mg/Kg wet	52.6		110	84.2-116.4	0.793	30	
Cadmium	57.5	0.50	mg/Kg wet	59.9		96.0	83.6-115.5	2.78	30	
Calcium	6170	15	mg/Kg wet	6160		100	83-117	2.95	30	
Chromium	70.1	1.0	mg/Kg wet	69.3		101	81.6-117.6	2.48	30	
Cobalt	100	5.0	mg/Kg wet	101		99.1	83.2-116.8	2.47	30	
Copper	82.7	1.0	mg/Kg wet	78.0		106	81.6-117.8	2.68	30	
Iron	13000	5.0	mg/Kg wet	12800		101	50.5-149.2	1.79	30	
Lead	88.5	1.5	mg/Kg wet	91.7		96.5	81.3-118.7	1.86	30	
Magnesium	2980	15	mg/Kg wet	3030		98.2	75.9-124.1	0.300	30	
Manganese	288	1.0	mg/Kg wet	283		102	82.5-117.5	2.11	30	
Nickel	55.4	1.0	mg/Kg wet	56.6		97.8	81.7-118.1	2.94	30	
Potassium	3860	200	mg/Kg wet	3820		101	72.5-127.2	0.178	30	
Selenium	156	10	mg/Kg wet	159		98.0	80.2-120.6	1.85	30	
Silver	32.4	1.0	mg/Kg wet	33.9		95.7	66.4-133.8	0.783	30	
Sodium	651	200	mg/Kg wet	652		99.8	73.7-126	0.146	30	
Thallium	114	5.0	mg/Kg wet	119		95.5	81.3-118.8	1.93	30	
Vanadium	60.0	2.0	mg/Kg wet	56.3		107	77.6-122.8	0.475	30	
Zinc	134	2.0	mg/Kg wet	137		98.1	82.2-117.8	1.31	30	
Duplicate (B062582-DUP1)		**Source: 12K0347-31**		Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	12500	3.3	mg/Kg dry		14000			10.9	35	
Antimony	ND	3.3	mg/Kg dry		ND			NC	35	
Arsenic	3.86	3.3	mg/Kg dry		5.27			31.0	35	
Barium	121	3.3	mg/Kg dry		126			4.24	35	
Beryllium	ND	0.67	mg/Kg dry		ND			NC	35	DL-04
Cadmium	0.818	0.33	mg/Kg dry		0.798			2.51	35	
Calcium	4340	10	mg/Kg dry		3710			15.8	35	
Chromium	61.8	0.67	mg/Kg dry		67.4			8.66	35	
Cobalt	11.5	3.3	mg/Kg dry		13.1			13.2	35	
Copper	76.2	0.67	mg/Kg dry		102			28.6	35	
Iron	52900	330	mg/Kg dry		61000			14.2	35	
Lead	118	1.0	mg/Kg dry		104			12.7	35	
Magnesium	5000	10	mg/Kg dry		6500			26.1	35	
Manganese	622	0.67	mg/Kg dry		704			12.2	35	
Nickel	46.4	0.67	mg/Kg dry		45.0			3.15	35	
Potassium	3910	130	mg/Kg dry		6090			**43.7** *	35	R-02
Selenium	ND	6.7	mg/Kg dry		ND			NC	35	
Silver	ND	0.67	mg/Kg dry		ND			NC	35	
Sodium	ND	130	mg/Kg dry		ND			NC	35	
Thallium	ND	3.3	mg/Kg dry		ND			NC	35	
Vanadium	46.0	1.3	mg/Kg dry		55.6			19.0	35	
Zinc	191	1.3	mg/Kg dry		171			11.1	35	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062582 - SW-846 3050B											
Matrix Spike (B062582-MS1)		**Source: 12K0347-31**		Prepared: 11/10/12 Analyzed: 11/12/12							
Aluminum	13500	3.3	mg/Kg dry	132	14000	**-354**	*	75-125			MS-19
Antimony	48.5	3.3	mg/Kg dry	132	ND	**36.6**	*	75-125			MS-07
Arsenic	132	3.3	mg/Kg dry	132	5.27	95.8		75-125			
Barium	249	3.3	mg/Kg dry	132	126	92.6		75-125			
Beryllium	132	0.33	mg/Kg dry	132	ND	99.9		75-125			
Cadmium	123	0.33	mg/Kg dry	132	0.798	92.5		75-125			
Calcium	4360	9.9	mg/Kg dry	132	3710	**493**	*	75-125			MS-19
Chromium	191	0.66	mg/Kg dry	132	67.4	93.5		75-125			
Cobalt	132	3.3	mg/Kg dry	132	13.1	90.0		75-125			
Copper	220	0.66	mg/Kg dry	132	102	89.7		75-125			
Iron	59200	330	mg/Kg dry	132	61000	**-1390**	*	75-125			MS-19
Lead	241	0.99	mg/Kg dry	132	104	104		75-125			
Magnesium	5090	9.9	mg/Kg dry	132	6500	**-1060**	*	75-125			MS-19
Manganese	1230	0.66	mg/Kg dry	132	704	**400**	*	75-125			MS-19
Nickel	177	0.66	mg/Kg dry	132	45.0	100		75-125			
Potassium	5190	130	mg/Kg dry	1320	6090	**-68.0**	*	75-125			MS-19
Selenium	113	6.6	mg/Kg dry	132	ND	85.3		75-125			
Silver	121	0.66	mg/Kg dry	132	ND	91.2		75-125			
Sodium	246	130	mg/Kg dry	132	103	108		75-125			
Thallium	114	3.3	mg/Kg dry	132	ND	86.1		75-125			
Vanadium	180	1.3	mg/Kg dry	132	55.6	94.2		75-125			
Zinc	313	1.3	mg/Kg dry	132	171	107		75-125			
Batch B062583 - SW-846 3050B											
Blank (B062583-BLK1)				Prepared: 11/10/12 Analyzed: 11/12/12							
Aluminum	ND	2.5	mg/Kg wet								
Antimony	ND	2.5	mg/Kg wet								
Arsenic	ND	2.5	mg/Kg wet								
Barium	ND	2.5	mg/Kg wet								
Beryllium	ND	0.25	mg/Kg wet								
Cadmium	ND	0.25	mg/Kg wet								
Calcium	ND	7.5	mg/Kg wet								
Chromium	ND	0.50	mg/Kg wet								
Cobalt	ND	2.5	mg/Kg wet								
Copper	ND	0.50	mg/Kg wet								
Iron	ND	2.5	mg/Kg wet								
Lead	ND	0.75	mg/Kg wet								
Magnesium	ND	7.5	mg/Kg wet								
Manganese	ND	0.50	mg/Kg wet								
Nickel	ND	0.50	mg/Kg wet								
Potassium	ND	100	mg/Kg wet								
Selenium	ND	5.0	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								
Sodium	ND	100	mg/Kg wet								
Thallium	ND	2.5	mg/Kg wet								
Vanadium	ND	1.0	mg/Kg wet								
Zinc	ND	1.0	mg/Kg wet								

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062583 - SW-846 3050B										
LCS (B062583-BS1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	7830	5.0	mg/Kg wet	8360		93.7	48-152.5			
Antimony	84.9	5.0	mg/Kg wet	92.9		91.4	2.5-219.2			
Arsenic	94.9	5.0	mg/Kg wet	94.5		100	83.3-117.3			
Barium	171	5.0	mg/Kg wet	166		103	54.9-116.9			
Beryllium	57.9	0.50	mg/Kg wet	52.6		110	84.2-116.4			
Cadmium	58.4	0.50	mg/Kg wet	59.9		97.6	83.6-115.5			
Calcium	6150	15	mg/Kg wet	6160		99.9	83-117			
Chromium	68.7	0.99	mg/Kg wet	69.3		99.1	81.6-117.6			
Cobalt	101	5.0	mg/Kg wet	101		99.8	83.2-116.8			
Copper	82.4	0.99	mg/Kg wet	78.0		106	83.7-116.2			
Iron	11700	5.0	mg/Kg wet	12800		91.5	50.6-149.2			
Lead	85.4	1.5	mg/Kg wet	91.7		93.1	81.3-118.7			
Magnesium	3060	15	mg/Kg wet	3030		101	75.9-124.1			
Manganese	287	0.99	mg/Kg wet	283		101	81.6-118			
Nickel	53.9	0.99	mg/Kg wet	56.6		95.3	81.7-118.1			
Potassium	3930	200	mg/Kg wet	3820		103	72.5-127.2			
Selenium	154	9.9	mg/Kg wet	159		96.9	80.2-120.6			
Silver	32.4	0.99	mg/Kg wet	33.9		95.6	66.4-133.8			
Sodium	657	200	mg/Kg wet	652		101	73.7-126			
Thallium	113	5.0	mg/Kg wet	119		94.9	81.3-118.8			
Vanadium	57.7	2.0	mg/Kg wet	56.3		102	72.8-127.2			
Zinc	131	2.0	mg/Kg wet	137		95.8	82.2-117.8			
LCS (B062583-BS2)				Prepared: 11/10/12 Analyzed: 11/12/12						
Lead	0.805	0.75	mg/Kg wet	0.746		108	80-120			
LCS Dup (B062583-BSD1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	7460	5.0	mg/Kg wet	8360		89.2	48-152.5	4.86	30	
Antimony	82.1	5.0	mg/Kg wet	92.9		88.4	2.5-219.2	3.34	30	
Arsenic	88.9	5.0	mg/Kg wet	94.5		94.1	83.3-117.3	6.52	30	
Barium	162	5.0	mg/Kg wet	166		97.4	54.9-116.9	5.84	30	
Beryllium	55.9	0.50	mg/Kg wet	52.6		106	84.2-116.4	3.53	30	
Cadmium	56.1	0.50	mg/Kg wet	59.9		93.6	83.6-115.5	4.11	30	
Calcium	6130	15	mg/Kg wet	6160		99.5	83-117	0.409	30	
Chromium	66.1	0.99	mg/Kg wet	69.3		95.3	81.6-117.6	3.85	30	
Cobalt	95.5	5.0	mg/Kg wet	101		94.6	83.2-116.8	5.43	30	
Copper	80.0	0.99	mg/Kg wet	78.0		103	83.7-116.2	2.96	30	
Iron	11200	5.0	mg/Kg wet	12800		87.8	50.6-149.2	4.10	30	
Lead	81.7	1.5	mg/Kg wet	91.7		89.1	81.3-118.7	4.39	30	
Magnesium	2880	15	mg/Kg wet	3030		95.2	75.9-124.1	5.88	30	
Manganese	263	0.99	mg/Kg wet	283		93.0	81.6-118	8.50	30	
Nickel	51.1	0.99	mg/Kg wet	56.6		90.3	81.7-118.1	5.40	30	
Potassium	3830	200	mg/Kg wet	3820		100	72.5-127.2	2.64	30	
Selenium	144	9.9	mg/Kg wet	159		90.4	80.2-120.6	6.92	30	
Silver	30.8	0.99	mg/Kg wet	33.9		90.7	66.4-133.8	5.25	30	
Sodium	631	200	mg/Kg wet	652		96.8	73.7-126	4.04	30	
Thallium	107	5.0	mg/Kg wet	119		89.8	81.3-118.8	5.51	30	
Vanadium	56.3	2.0	mg/Kg wet	56.3		99.9	72.8-127.2	2.49	30	
Zinc	124	2.0	mg/Kg wet	137		90.6	82.2-117.8	5.60	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062583 - SW-846 3050B											
Duplicate (B062583-DUP1)		**Source: 12K0347-17**		Prepared: 11/10/12 Analyzed: 11/12/12							
Aluminum	29900	2.6	mg/Kg dry		31300				4.66	35	
Antimony	ND	2.6	mg/Kg dry		ND				NC	35	
Arsenic	ND	2.6	mg/Kg dry		ND				NC	35	
Barium	204	2.6	mg/Kg dry		221				8.06	35	
Beryllium	ND	1.3	mg/Kg dry		ND				NC	35	DL-04
Cadmium	0.552	0.26	mg/Kg dry		0.591				6.91	35	
Calcium	1990	7.9	mg/Kg dry		2010				0.950	35	
Chromium	134	0.53	mg/Kg dry		134				0.497	35	
Cobalt	17.5	2.6	mg/Kg dry		18.3				4.06	35	
Copper	53.2	0.53	mg/Kg dry		63.4				17.5	35	
Iron	33600	13	mg/Kg dry		33300				0.975	35	
Lead	50.7	0.79	mg/Kg dry		46.4				8.83	35	
Magnesium	13800	7.9	mg/Kg dry		14900				7.55	35	
Manganese	407	0.53	mg/Kg dry		397				2.29	35	
Nickel	56.6	0.53	mg/Kg dry		57.4				1.35	35	
Potassium	7550	110	mg/Kg dry		9700				24.9	35	
Selenium	ND	5.3	mg/Kg dry		ND				NC	35	
Silver	ND	0.53	mg/Kg dry		ND				NC	35	
Sodium	ND	110	mg/Kg dry		ND				NC	35	
Thallium	ND	2.6	mg/Kg dry		ND				NC	35	
Vanadium	80.2	1.1	mg/Kg dry		84.1				4.79	35	
Zinc	215	1.1	mg/Kg dry		181				17.4	35	
Matrix Spike (B062583-MS1)		**Source: 12K0347-17**		Prepared: 11/10/12 Analyzed: 11/12/12							
Aluminum	30000	2.7	mg/Kg dry	107	31300	**-1200**	*	75-125			MS-19
Antimony	36.2	2.7	mg/Kg dry	107	ND	**33.8**	*	75-125			MS-07
Arsenic	97.6	2.7	mg/Kg dry	107	2.02	89.2		75-125			
Barium	288	2.7	mg/Kg dry	107	221	**62.3**	*	75-125			MS-07
Beryllium	102	0.27	mg/Kg dry	107	ND	94.9		75-125			
Cadmium	99.3	0.27	mg/Kg dry	107	0.591	92.1		75-125			
Calcium	2710	8.0	mg/Kg dry	107	2010	**654**	*	75-125			MS-19
Chromium	231	0.54	mg/Kg dry	107	134	90.3		75-125			
Cobalt	108	2.7	mg/Kg dry	107	18.3	83.8		75-125			
Copper	151	0.54	mg/Kg dry	107	63.4	81.6		75-125			
Iron	30100	2.7	mg/Kg dry	107	33300	**-2950**	*	75-125			MS-19
Lead	131	0.80	mg/Kg dry	107	46.4	78.9		75-125			
Magnesium	13200	8.0	mg/Kg dry	107	14900	**-1560**	*	75-125			MS-19
Manganese	473	0.54	mg/Kg dry	107	397	**70.5**	*	75-125			MS-07
Nickel	141	0.54	mg/Kg dry	107	57.4	77.8		75-125			
Potassium	7650	110	mg/Kg dry	1070	9700	**-192**	*	75-125			MS-19
Selenium	81.2	5.4	mg/Kg dry	107	ND	75.7		75-125			
Silver	97.5	0.54	mg/Kg dry	107	ND	91.0		75-125			
Sodium	227	110	mg/Kg dry	107	107	112		75-125			
Thallium	94.4	2.7	mg/Kg dry	107	ND	88.1		75-125			
Vanadium	178	1.1	mg/Kg dry	107	84.1	87.3		75-125			
Zinc	299	1.1	mg/Kg dry	107	181	110		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062584 - SW-846 3050B										
Blank (B062584-BLK1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B062584-BS1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	9110	5.0	mg/Kg wet	8360		109	48-152.5			
Antimony	88.3	5.0	mg/Kg wet	92.9		95.1	2.5-219.2			
Arsenic	91.7	5.0	mg/Kg wet	94.5		97.0	83.3-117.3			
Barium	172	5.0	mg/Kg wet	166		104	54.9-116.9			
Beryllium	56.3	0.50	mg/Kg wet	52.6		107	84.2-116.4			
Cadmium	61.1	0.50	mg/Kg wet	59.9		102	83.6-115.5			
Calcium	6140	15	mg/Kg wet	6160		99.7	83-117			
Chromium	71.7	1.0	mg/Kg wet	69.3		103	81.6-117.6			
Cobalt	100	5.0	mg/Kg wet	101		99.1	83.2-116.8			
Copper	89.0	1.0	mg/Kg wet	78.0		114	83.7-116.2			
Iron	13000	5.0	mg/Kg wet	12800		102	50.6-149.2			
Lead	86.6	1.5	mg/Kg wet	91.7		94.5	81.3-118.7			
Magnesium	3130	15	mg/Kg wet	3030		103	75.9-124.1			
Manganese	295	1.0	mg/Kg wet	283		104	81.6-118			
Nickel	53.2	1.0	mg/Kg wet	56.6		94.0	81.7-118.1			
Potassium	4040	200	mg/Kg wet	3820		106	72.5-127.2			
Selenium	148	10	mg/Kg wet	159		92.8	80.2-120.6			
Silver	32.6	1.0	mg/Kg wet	33.9		96.1	66.4-133.8			
Sodium	655	200	mg/Kg wet	652		100	73.7-126			
Thallium	116	5.0	mg/Kg wet	119		97.3	81.3-118.8			
Vanadium	65.0	2.0	mg/Kg wet	56.3		115	72.8-127.2			
Zinc	132	2.0	mg/Kg wet	137		96.4	82.2-117.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062584 - SW-846 3050B										
LCS (B062584-BS2)				Prepared: 11/10/12 Analyzed: 11/12/12						
Lead	0.763	0.74	mg/Kg wet	0.735		104	80-120			
LCS Dup (B062584-BSD1)				Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	8840	5.0	mg/Kg wet	8360		106	48-152.5	3.03	30	
Antimony	89.1	5.0	mg/Kg wet	92.9		95.9	2.5-219.2	0.901	30	
Arsenic	90.6	5.0	mg/Kg wet	94.5		95.9	83.3-117.3	1.15	30	
Barium	173	5.0	mg/Kg wet	166		104	54.9-116.9	0.00678	30	
Beryllium	55.8	0.50	mg/Kg wet	52.6		106	84.2-116.4	0.891	30	
Cadmium	59.2	0.50	mg/Kg wet	59.9		98.9	83.6-115.5	3.10	30	
Calcium	6020	15	mg/Kg wet	6160		97.7	83-117	2.01	30	
Chromium	69.6	1.0	mg/Kg wet	69.3		100	81.6-117.6	3.01	30	
Cobalt	97.1	5.0	mg/Kg wet	101		96.1	83.2-116.8	3.03	30	
Copper	82.4	1.0	mg/Kg wet	78.0		106	83.7-116.2	7.72	30	
Iron	12600	5.0	mg/Kg wet	12800		98.4	50.6-149.2	3.07	30	
Lead	83.4	1.5	mg/Kg wet	91.7		90.9	81.3-118.7	3.80	30	
Magnesium	3080	15	mg/Kg wet	3030		102	75.9-124.1	1.59	30	
Manganese	285	1.0	mg/Kg wet	283		101	81.6-118	3.65	30	
Nickel	51.9	1.0	mg/Kg wet	56.6		91.6	81.7-118.1	2.50	30	
Potassium	4010	200	mg/Kg wet	3820		105	72.5-127.2	0.560	30	
Selenium	146	10	mg/Kg wet	159		92.1	80.2-120.6	0.775	30	
Silver	31.2	1.0	mg/Kg wet	33.9		92.1	66.4-133.8	4.24	30	
Sodium	638	200	mg/Kg wet	652		97.8	73.7-126	2.62	30	
Thallium	112	5.0	mg/Kg wet	119		94.1	81.3-118.8	3.30	30	
Vanadium	62.6	2.0	mg/Kg wet	56.3		111	72.8-127.2	3.74	30	
Zinc	128	2.0	mg/Kg wet	137		93.2	82.2-117.8	3.41	30	
Duplicate (B062584-DUP1)		**Source: 12K0347-01**		Prepared: 11/10/12 Analyzed: 11/12/12						
Aluminum	13800	2.8	mg/Kg dry		12600			9.22	35	
Antimony	ND	2.8	mg/Kg dry		ND			NC	35	
Arsenic	ND	2.8	mg/Kg dry		ND			NC	35	
Barium	136	2.8	mg/Kg dry		106			24.4	35	
Beryllium	ND	0.55	mg/Kg dry		ND			NC	35	DL-04
Cadmium	0.373	0.28	mg/Kg dry		0.455			19.8	35	
Calcium	2690	8.3	mg/Kg dry		1940			32.6	35	
Chromium	58.7	0.55	mg/Kg dry		60.9			3.73	35	
Cobalt	11.4	2.8	mg/Kg dry		10.8			5.70	35	
Copper	33.0	0.55	mg/Kg dry		39.7			18.3	35	
Iron	28500	28	mg/Kg dry		43800			**42.3** *	35	R-02
Magnesium	7100	8.3	mg/Kg dry		6580			7.69	35	
Manganese	397	0.55	mg/Kg dry		563			34.7	35	
Nickel	33.9	0.55	mg/Kg dry		34.6			1.91	35	
Potassium	6740	110	mg/Kg dry		6160			9.06	35	
Selenium	ND	5.5	mg/Kg dry		ND			NC	35	
Silver	ND	0.55	mg/Kg dry		ND			NC	35	
Sodium	166	110	mg/Kg dry		ND			NC	35	
Thallium	ND	2.8	mg/Kg dry		ND			NC	35	
Vanadium	47.5	1.1	mg/Kg dry		48.4			1.82	35	
Zinc	55.0	1.1	mg/Kg dry		51.5			6.61	35	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062584 - SW-846 3050B											
Matrix Spike (B062584-MS1)		**Source: 12K0347-01**		Prepared: 11/10/12 Analyzed: 11/12/12							
Aluminum	16100	2.6	mg/Kg dry	103	12600	**3330**	*	75-125			MS-19
Antimony	33.2	2.6	mg/Kg dry	103	ND	**32.1**	*	75-125			MS-07
Arsenic	94.8	2.6	mg/Kg dry	103	ND	91.6		75-125			
Barium	240	2.6	mg/Kg dry	103	106	**129**	*	75-125			MS-11
Beryllium	96.9	0.26	mg/Kg dry	103	ND	93.7		75-125			
Cadmium	97.9	0.26	mg/Kg dry	103	0.455	94.2		75-125			
Calcium	2450	7.8	mg/Kg dry	103	1940	**495**	*	75-125			MS-19
Chromium	165	0.52	mg/Kg dry	103	60.9	100		75-125			
Cobalt	100	2.6	mg/Kg dry	103	10.8	86.6		75-125			
Copper	138	0.52	mg/Kg dry	103	39.7	94.8		75-125			
Iron	33900	26	mg/Kg dry	103	43800	**-9530**	*	75-125			MS-19
Magnesium	9160	7.8	mg/Kg dry	103	6580	**2500**	*	75-125			MS-19
Manganese	534	0.52	mg/Kg dry	103	563	**-27.7**	*	75-125			MS-19
Nickel	123	0.52	mg/Kg dry	103	34.6	85.1		75-125			
Potassium	9920	100	mg/Kg dry	1030	6160	**363**	*	75-125			MS-19
Selenium	74.6	5.2	mg/Kg dry	103	ND	**72.0**	*	75-125			MS-07
Silver	91.3	0.52	mg/Kg dry	103	ND	88.2		75-125			
Sodium	247	100	mg/Kg dry	103	104	**138**	*	75-125			MS-14
Thallium	89.0	2.6	mg/Kg dry	103	ND	86.0		75-125			
Vanadium	157	1.0	mg/Kg dry	103	48.4	105		75-125			
Zinc	149	1.0	mg/Kg dry	103	51.5	94.5		75-125			
Batch B062616 - SW-846 7471											
Blank (B062616-BLK1)				Prepared: 11/12/12 Analyzed: 11/13/12							
Mercury	ND	0.025	mg/Kg wet								
LCS (B062616-BS1)				Prepared: 11/12/12 Analyzed: 11/13/12							
Mercury	3.50	0.33	mg/Kg wet	3.73		93.7		71.7-128.3			
LCS Dup (B062616-BSD1)				Prepared: 11/12/12 Analyzed: 11/13/12							
Mercury	3.65	0.33	mg/Kg wet	3.73		97.7		71.7-128.3	4.17	30	
Batch B062631 - SW-846 7471											
Blank (B062631-BLK1)				Prepared: 11/12/12 Analyzed: 11/13/12							
Mercury	ND	0.025	mg/Kg wet								
LCS (B062631-BS1)				Prepared: 11/12/12 Analyzed: 11/13/12							
Mercury	3.78	0.33	mg/Kg wet	3.73		101		71.7-128.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062631 - SW-846 7471										
LCS Dup (B062631-BSD1)				Prepared: 11/12/12 Analyzed: 11/13/12						
Mercury	3.45	0.33	mg/Kg wet	3.73		92.4	71.7-128.3	9.12	30	
Batch B062687 - SW-846 7471										
Blank (B062687-BLK1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B062687-BS1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Mercury	3.20	0.33	mg/Kg wet	3.73		85.8	71.7-128.3			
LCS Dup (B062687-BSD1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Mercury	3.40	0.33	mg/Kg wet	3.73		91.0	71.7-128.3	5.87	30	
Batch B062754 - SW-846 3050B										
Blank (B062754-BLK1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	ND	0.75	mg/Kg wet							
LCS (B062754-BS1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	89.7	1.5	mg/Kg wet	91.7		97.8	82.4-117.8			
LCS (B062754-BS2)				Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	0.812	0.72	mg/Kg wet	0.718		113	80-120			
LCS Dup (B062754-BSD1)				Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	90.7	1.5	mg/Kg wet	91.7		98.9	82.4-117.8	1.10	30	
Duplicate (B062754-DUP1)		**Source: 12K0347-01RE1**		Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	22.9	0.80	mg/Kg dry		21.8			5.16	35	
Matrix Spike (B062754-MS1)		**Source: 12K0347-01RE1**		Prepared: 11/13/12 Analyzed: 11/14/12						
Lead	122	0.83	mg/Kg dry	111	21.8	90.3	75-125			
Batch B062761 - SW-846 7471										
Blank (B062761-BLK1)				Prepared & Analyzed: 11/14/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B062761-BS1)				Prepared & Analyzed: 11/14/12						
Mercury	3.73	0.33	mg/Kg wet	3.73		100	71.7-128.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062761 - SW-846 7471										
LCS Dup (B062761-BSD1)				Prepared & Analyzed: 11/14/12						
Mercury	4.44	0.33	mg/Kg wet	3.73		119	71.7-128.3	17.3	30	
Batch B062780 - SW-846 7471										
Blank (B062780-BLK1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B062780-BS1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Mercury	4.11	0.33	mg/Kg wet	3.73		110	71.7-128.3			
LCS Dup (B062780-BSD1)				Prepared: 11/14/12 Analyzed: 11/15/12						
Mercury	3.40	0.32	mg/Kg wet	3.73		91.1	71.7-128.3	18.9	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B062579 - % Solids											
Duplicate (B062579-DUP1)		**Source: 12K0347-55**		Prepared: 11/09/12	Analyzed: 11/12/12						
% Solids	57.2		% Wt		58.5				2.25	20	
Duplicate (B062579-DUP2)		**Source: 12K0347-25**		Prepared: 11/09/12	Analyzed: 11/12/12						
% Solids	80.2		% Wt		79.4				1.00	20	
Duplicate (B062579-DUP3)		**Source: 12K0347-01**		Prepared: 11/09/12	Analyzed: 11/12/12						
% Solids	88.8		% Wt		89.0				0.225	20	
Batch B062614 - SW-846 9014											
Blank (B062614-BLK1)				Prepared & Analyzed: 11/11/12							
Cyanide	ND	0.49	mg/Kg wet								
LCS (B062614-BS1)				Prepared & Analyzed: 11/11/12							
Cyanide	75	2.4	mg/Kg wet	82.7		91.0		80-120			
LCS Dup (B062614-BSD1)				Prepared & Analyzed: 11/11/12							
Cyanide	78	2.4	mg/Kg wet	82.2		94.9		80-120	3.61	20	
Matrix Spike (B062614-MS1)		**Source: 12K0347-10**		Prepared & Analyzed: 11/11/12							
Cyanide	15	0.41	mg/Kg dry	13.8	0.50	106		75-125			
Matrix Spike Dup (B062614-MSD1)		**Source: 12K0347-10**		Prepared & Analyzed: 11/11/12							
Cyanide	15	0.41	mg/Kg dry	13.8	0.50	104		75-125	1.82	35	
Batch B062653 - SW-846 9014											
Blank (B062653-BLK1)				Prepared & Analyzed: 11/13/12							
Cyanide	ND	0.48	mg/Kg wet								
LCS (B062653-BS1)				Prepared & Analyzed: 11/13/12							
Cyanide	70	2.4	mg/Kg wet	84.7		82.3		80-120			
LCS Dup (B062653-BSD1)				Prepared & Analyzed: 11/13/12							
Cyanide	63	2.4	mg/Kg wet	84.4		**74.9**	*	80-120	9.65	20	L-07
Matrix Spike (B062653-MS1)		**Source: 12K0347-23**		Prepared & Analyzed: 11/13/12							
Cyanide	22	0.68	mg/Kg dry	23.2	0.53	90.8		75-125			
Matrix Spike Dup (B062653-MSD1)		**Source: 12K0347-23**		Prepared & Analyzed: 11/13/12							
Cyanide	24	0.71	mg/Kg dry	24.1	0.53	97.3		75-125	10.1	35	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B062825 - SW-846 9014										
Blank (B062825-BLK1)				Prepared & Analyzed: 11/15/12						
Cyanide	ND	0.46	mg/Kg wet							
LCS (B062825-BS1)				Prepared & Analyzed: 11/15/12						
Cyanide	69	2.5	mg/Kg wet	58.6		118	80-120			
LCS Dup (B062825-BSD1)				Prepared & Analyzed: 11/15/12						
Cyanide	67	2.5	mg/Kg wet	58.2		115	80-120	3.59	20	
Matrix Spike (B062825-MS1)		**Source: 12K0347-38**		Prepared & Analyzed: 11/15/12						
Cyanide	11	0.35	mg/Kg dry	11.9	0.27	93.5	75-125			
Matrix Spike Dup (B062825-MSD1)		**Source: 12K0347-38**		Prepared & Analyzed: 11/15/12						
Cyanide	12	0.34	mg/Kg dry	11.6	0.27	99.9	75-125	4.59	35	
Batch B062935 - SW-846 9014										
Blank (B062935-BLK1)				Prepared & Analyzed: 11/16/12						
Cyanide	ND	0.50	mg/Kg wet							
LCS (B062935-BS1)				Prepared & Analyzed: 11/16/12						
Cyanide	68	2.5	mg/Kg wet	59.3		114	80-120			
LCS Dup (B062935-BSD1)				Prepared & Analyzed: 11/16/12						
Cyanide	65	2.5	mg/Kg wet	59.3		109	80-120	4.57	20	
Matrix Spike (B062935-MS1)		**Source: 12K0347-49**		Prepared & Analyzed: 11/16/12						
Cyanide	20	0.59	mg/Kg dry	20.2	0.37	99.0	75-125			
Matrix Spike Dup (B062935-MSD1)		**Source: 12K0347-49**		Prepared & Analyzed: 11/16/12						
Cyanide	19	0.54	mg/Kg dry	18.3	0.37	101	75-125	7.48	35	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.
V-24	Continuing calibration verification was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
SW-846 6010C in Soil	
Aluminum	CT,NH,NY,ME
Antimony	CT,NH,NY,NC,ME
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Beryllium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Calcium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Cobalt	CT,NH,NY,ME,NC
Copper	CT,NH,NY,ME,NC
Iron	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Magnesium	CT,NH,NY,ME,NC
Manganese	CT,NH,NY,ME,NC
Nickel	CT,NH,NY,ME,NC
Potassium	CT,NH,NY,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
Sodium	CT,NH,NY,ME,NC
Thallium	CT,NH,NY,ME,NC
Vanadium	CT,NH,NY,ME,NC
Zinc	CT,NH,NY,ME,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2012
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

con-test® ANALYTICAL LABORATORY
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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Rev 04.05.12

12K0347

Company Name: TRC Environmental
Address: 400 Southborough Drive, South Portland, MAINE 04106
Attention: Charlie Springer
Project Location: Windham, Maine (Little Falls)
Sampled By: Jeffrey Robinson

Telephone: 207.879.1930
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: cspringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS ☒ OTHER EGAD
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs ☒ SOXHLET	TAL Metals + Cyanide	1,4-Dioxane (including PAHs)	% solids									# of Containers	** Preservation	***Container Code
								1	1	2	1									1	2	1
										1,4-Dioxane												
01	T-TP-1 (0-1')	11/6/12	1000	X		S		X	X	X	X											
02	T-TP-1 (8-10')	"	1010	X		S		X	X	X	X											
03	T-TP-1 (12-13')	"	1025	X		S		X	X	X	X											
04	T-TP-2 (0-1')	"	1125	X		S		X	X	X	X											
05	T-TP-2 (3-4')	"	1135	X		S		X	X	X	X											
06	T-TP-3 (0-1')	"	1300	X		S		X	X	X	X											
07	T-TP-3 (3.5-5')	"	1315	X		S		X	X	X	X											
08	T-TP-4 (0-1')	"	1345	X		S		X	X	X	X											
09	T-TP-4 (1-3')	"	1400	X		S		X	X	X	X											
10	T-TP-4 (4-5')	"	1415	X		S		X	X	X	X											

Comments:
☒ PCBs soxhlet per Charlie S. MK 11/12/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Dissolved Metals
○ Field Filtered
○ Lab to Filter

	Date/Time
Relinquished by: (signature)	11-9-12 1400
Received by: (signature)	11-9-12
Relinquished by: (signature)	11-9-12
Received by: (signature) 4.6 C	11/9/12 17:45

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Rev 04.05.12

12K0347

Company Name: TRC Environmental
Address: 400 Southborough Drive
South Portland, Maine 04106
Attention: Charles Springer
Project Location: Winslow Maine (Little Falls)
Sampled By: Jeffrey Robinson

Telephone: 207-879-1930
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: CSpringer@trcsolutions
Format: ☒ PDF ○ EXCEL ○ GIS ☒ OTHER EQuIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (8082)	SOXNLT	TAL Metals + Cyanide	EPH (including PAHs)	% solids										# of Containers	** Preservation	***Container Code
								1402	1402	1402	1402	Chris												
11	T-TP-5 (0-1')	11/6/12	1440	X		S		X	X	X	X													
12	T-TP-5 (2.5-3.5')	11/6/12	1450	X		S		X	X	X	X													
13	T-TP-5 (8-9')	11/6/12	1500	X		S		X	X	X	X													
14	DUP-1	11/6/12		X		S		X	X	X	X													
15	T-TP-6 (0-1')	11/7/12	0745	X		S		X	X	X	X													
16	T-TP-6 (1-2')	11/7/12	0755	X		S		X	X	X	X													
17	T-TP-6 (3.5-5')	11/7/12	0800	X		S		X	X	X	X													
18	T-TP-7 (0-1')	11/7/12	0845	X		S		X	X	X	X													
19	T-TP-7 (2-3')	11/7/12	0850	X		S		X	X	X	X													
20	T-TP-7 (5-6')	11/7/12	0900	X		S		X	X	X	X													

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High, M - Medium, L - Low, C - Clean, U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)		Date/Time: 11-9-12 1400
Received by: (signature)		Date/Time: 11-9-12
Relinquished by: (signature)		Date/Time: 11-9-12 1745
Received by: (signature)	4.6C	Date/Time: 11/9/12 17:45

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Rev 04.05.12

12K0347

Company Name: TRC Environmental
Address: 400 Southborough Drive
South Portland, Maine 04106
Attention: Chris Springer
Project Location: Windham, Maine (Little Falls)
Sampled By: Jeffrey Robinson

Telephone: 207-879-1930
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #:
Email: CSpringer@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
☒ OTHER EQuIS
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB's (8082)	TAL Metals (drive cyanide)	EPH (including PAH's)	% Solids										# of Containers
								1	1	2	1										** Preservation
								1	1	1	1										***Container Code
21	T-TP-8 (0-1')	11/7/12	0925	X		S		X	X	X	X										
22	T-TP-8 (3-4')	11/7/12	0930	X		S		X	X	X	X										
23	T-SWD-1	11/7/12	1000		X	S		X	X	X	X										
24	T-SWD-2	11/7/12	1005		X	S		X	X	X	X										
25	T-TP-9 (0-1')	11/7/12	1020	X		S		X	X	X	X										
26	T-TP-9 (3-4')	11/7/12	1025	X		S		X	X	X	X										
27	T-TP-10 (0-1')	11/7/12	1050	X		S		X	X	X	X										
28	T-TP-10 (2-3')	11/7/12	1055	X		S		X	X	X	X										
29	T-BANK-3	11/7/12	1040		X	S		X	X	X	X										
30	T-BANK-2	11/7/12	1125		X	S		X	X	X	X										

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Relinquished by: (signature)		Date/Time: 11-9-12 1400
Received by: (signature)	11-9-12	Date/Time:
Relinquished by: (signature)	11-9-12	Date/Time:
Received by: (signature)	4.6C 11/9/12	Date/Time: 17:45

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 6 Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

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WBE/DBE Certified

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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 4 of 6

Rev. 04.05.12

12K0347

Company Name: TRC Environmental
Address: 400 Southborough Drive
South Portland, Maine 04106
Attention: Charles Springer
Project Location: Windham, Maine (Little Falls)
Sampled By: Jeffrey Pelletier

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Telephone: 207.879.1930
Project #: 191981
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: CSpringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER EQuIS
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (8082)	TAL Metals + Cyanide	EPH (including PAH)	% solids	# of Containers	** Preservation	*** Container Code
								1	1	1	1			
								1 8oz jar	1 8oz jar	1 8oz glass				
31	T-BANK-1	11-7-12	1130		X	S		X	X	X	X			
32	DUP-2	11-7-12		X		S		X	X	X	X			
33	H-TP-1 (0-1')	11-7-12	1535	X		S		X	X	X	X			
34	H-TP-1 (2-3')	11-7-12	1545	X		S		X	X	X	X			
35	H-TP-1 (4-5')	11-7-12	1555	X		S		X	X	X	X			
36	H-TP-2 (0-1')	11-7-12	1505	X		S		X	X	X	X			
37	H-TP-3 (0-1')	11-7-12	1425	X		S		X	X	X	X			
38	H-TP-3 (2-4')	11-7-12	1435	X		S		X	X	X	X			
39	H-TP-3 (4-5')	11-7-12	1440	X		X		X	X	X	X			
40	H-TP-4 (0-1')	11-7-12	1330	X		X		X	X	X	X			

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High, M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

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Relinquished by: (signature)	Date/Time: 11-9-12 1400	
Received by: (signature)	Date/Time: 11-9-12	
Relinquished by: (signature)	Date/Time: 11-9-12	
Received by: (signature) 4.6C	Date/Time: 11/9/12 17:45	

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Rev. 04.05.12

12K0547

Company Name: TRC Environmental
Address: 400 Southborough Drive, South Portland, Maine 04106
Attention: Charles Springer
Project Location: Windham, Maine (Little Falls)
Sampled By: Jeffrey Blinson

Telephone: 207.879.1930
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: C springer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS ☒ OTHER EQuIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

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																					1	1	2
																					1	2A	1 oz clear glass
41	DUP-3	11-7-12		X		S		X	X	X	X												
42	H-TP-4 (5-6')	11-7-12	1335	X		S		X	X	X	X												
43	H-TP-4 (12-14')	11-7-12	1340	X		S		X	X	X	X												
44	DUP-4	11-8-12			X	S		X	X	X	X												
45	T-HA-1	11/8/12	1150	X		S						X											
46	T-HA-2	11/8/12	1130	X		S						X											
47	T-HA-3	11/8/12	1220	X		S						X											
48	T-HA-4	11/8/12	1245	X		S						X											
49	T-HA-5	11/8/12	1340	X		S		X	X	X	X												
50	T-HA-6	11/8/12	1325	X		S						X											

Comments: Please HOLD T-HA-1, T-HA-2, T-HA-3, T-HA-4, T-HA-6.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
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○ Field Filtered
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Relinquished by: (signature)	11-9-12	Date/Time:
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☐ 10-Day
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☐ †24-Hr ☐ †48-Hr
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NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Rev 04.05.12

12K0347

Company Name: TRC Environmental
Address: 400 Southbourgh Drive
South Portland, Maine 04106
Attention: Chuck Springer
Project Location: Windham, Maine (Little Falls)
Sampled By: Jeffrey Robinson

Telephone: 207.879.1930
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: CSpringer@TRCsolutions
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER EQuAD
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs @ Soxhlet 1602	TAL Metals + cyanide 1400	EPH (including PAHs) 1400	% solids	HOLD									# of Containers	** Preservation	***Container Code
51	T-HA-7	11/8/12	1530	X		S						X											
52	T-HA-8	"	1515	X		S						X											
53	T-HA-9	"	1540	X		S		X	X	X	X												
54	T-HA-10	"	1620	X		S						X											
55	T-BANK-4	"	1555		X	S		X	X	X	X												

Comments: Please HOLD T-HA-7, T-HA-8, T-HA-10

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
[signature]	11-9-12 1400
Received by: (signature) [signature]	Date/Time: 11-9-12
Relinquished by: (signature) [signature]	Date/Time: 11-9-12
Received by: (signature) Kerri Mee 4.6 C	Date/Time: 11/9/12 1745

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

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WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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East Longmeadow, MA. 01028
P: 413-525-2332
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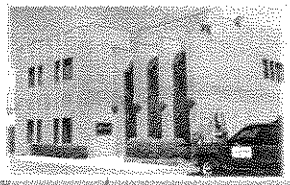
Sample Receipt Checklist



CLIENT NAME: TRC **RECEIVED BY:** KKM **DATE:** 11/9/12

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
   Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A
   Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6
5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	55
500 mL Amber		4 oz amber/clear jar	55
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Doc# 277
Rev. 3 May 2012

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 27, 2012

Charles Springer
TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106

Project Location: Windham, ME
Client Job Number:
Project Number: 191981.000002
Laboratory Work Order Number: 12L0695

Enclosed are results of analyses for samples received by the laboratory on December 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 12/27/2012

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0695

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-2 (2-6)	12L0695-01	Soil		SM 2540G	
				SW-846 1311	
				SW-846 6010C	
T-GP-4 (0-1)	12L0695-03	Soil		SM 2540G	
				SW-846 1311	
				SW-846 6010C	
T-GP-14 (1.5-5.5)	12L0695-05	Soil		SM 2540G	
				SW-846 1311	
				SW-846 6010C	
T-GP-17 (1-5.5)	12L0695-07	Soil		SM 2540G	
				SW-846 1312	
				SW-846 6020A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-2 (2-6)
Sampled: 12/4/2012 10:55

Sample ID: 12L0695-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	52.2		% Wt	1		SM 2540G	12/26/12	12/26/12 22:26	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-2 (2-6)
Sampled: 12/4/2012 10:55

Sample ID: 12L0695-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.11	0.010	mg/L	1		SW-846 6010C	12/24/12	12/24/12 11:53	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-4 (0-1)
Sampled: 12/4/2012 12:25

Sample ID: 12L0695-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.8		% Wt	1		SM 2540G	12/26/12	12/26/12 22:26	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-4 (0-1)
Sampled: 12/4/2012 12:25

Sample ID: 12L0695-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.60	0.010	mg/L	1		SW-846 6010C	12/24/12	12/24/12 12:15	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-14 (1.5-5.5)
Sampled: 12/5/2012 10:40

Sample ID: 12L0695-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.8		% Wt	1		SM 2540G	12/26/12	12/26/12 22:26	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-14 (1.5-5.5)
Sampled: 12/5/2012 10:40

Sample ID: 12L0695-05

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	17	0.010	mg/L	1		SW-846 6010C	12/24/12	12/24/12 12:36	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-17 (1-5.5)
Sampled: 12/5/2012 13:50

Sample ID: 12L0695-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	12/26/12	12/26/12 22:26	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0695

Date Received: 12/19/2012

Field Sample #: T-GP-17 (1-5.5)
Sampled: 12/5/2012 13:50

Sample ID: 12L0695-07

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	44	5.0	µg/L	5		SW-846 6020A	12/24/12	12/24/12 11:45	AMP

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0695-01 [T-GP-2 (2-6)]	B065278	12/26/12
12L0695-03 [T-GP-4 (0-1)]	B065278	12/26/12
12L0695-05 [T-GP-14 (1.5-5.5)]	B065278	12/26/12
12L0695-07 [T-GP-17 (1-5.5)]	B065278	12/26/12

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 12/21/2012 per SW-846 1311 in Batch B065090**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12L0695-01 [T-GP-2 (2-6)]	B065211	50.0	50.0	12/24/12
12L0695-03 [T-GP-4 (0-1)]	B065211	50.0	50.0	12/24/12
12L0695-05 [T-GP-14 (1.5-5.5)]	B065211	50.0	50.0	12/24/12

Prep Method: SW-846 3010A-SW-846 6020A **Leachates were extracted on 12/21/2012 per SW-846 1312 in Batch B065091**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12L0695-07 [T-GP-17 (1-5.5)]	B065212	50.0	50.0	12/24/12

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065278 - % Solids										
Duplicate (B065278-DUP1)		**Source: 12L0695-01**		Prepared & Analyzed: 12/26/12						
% Solids	47.3		% Wt		52.2			9.85	20	

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065211 - SW-846 3010A										
Blank (B065211-BLK1)				Prepared & Analyzed: 12/24/12						
Lead	ND	0.010	mg/L							
LCS (B065211-BS1)				Prepared & Analyzed: 12/24/12						
Lead	0.492	0.010	mg/L	0.500		98.4	80-120			
LCS Dup (B065211-BSD1)				Prepared & Analyzed: 12/24/12						
Lead	0.498	0.010	mg/L	0.500		99.6	80-120	1.23	20	
Matrix Spike (B065211-MS1)		**Source: 12L0695-01**		Prepared & Analyzed: 12/24/12						
Lead	0.601	0.010	mg/L	0.500	0.107	98.9	75-125			

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QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065212 - SW-846 3010A										
Blank (B065212-BLK1)				Prepared & Analyzed: 12/24/12						
Lead	ND	5.0	µg/L							
LCS (B065212-BS1)				Prepared & Analyzed: 12/24/12						
Lead	260	5.0	µg/L	250		104	80-120			
LCS Dup (B065212-BSD1)				Prepared & Analyzed: 12/24/12						
Lead	270	5.0	µg/L	250		108	80-120	3.66	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Lead	NY,CT,ME,NC,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

Rev 04.05.12

12L0695

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Drive, South Portland, ME 04106
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 774 2615
Project #: 191981
Client PO#: 51725

DATA DELIVERY (check all that apply): ○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: cspringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ○ yes ____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 soxhlet, cyanide, EPH	TAL 23 Metals, % Solids	TCLP Lead, SPLP Lead Hold All	PCB Soxhlet	TAL Metals	TCLP Pb						
								1	1	1									# of Containers
								I	I	I									** Preservation
								A	A	A									***Container Code
01 ✓	T-GP-1 (0-1)	12/8/12	0945		X	S		X	X										
02 ✓	T-GP-1 (4-6.5)	12/8/12	0950					X	X	X									
03 X	T-GP-1 (7-9) Hold	12/8/12	1000					X	X										
04 ✓	T-GP-2 (0-1)	12/8/12	1050					X	X										
-01 05 X	T-GP-2 (2-6)	12/8/12	1055					X	X	X			X						
-02 06 X	T-GP-2 (6-8) Hold	12/8/12	1105					X	X		X	X	Don't run						
07 ✓	T-GP-3 (0-1)	12/8/12	1145					X	X										
08 ✓	T-GP-3 (1-1.5)	12/8/12	1150					X	X	X									
09 ✓	T-GP-3 (5-7) Hold	12/8/12	1155					X	X										
-03 10 X	T-GP-4 (0-1)	12/8/12	1225					X	X	X			X						

Comments: Hold TCLP + SPLP Lead
Note other holds above
sample dates 12/4/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Stephen Mayer 12/6/12	1225
Received by: (signature) Ebony Lewis 12/6/12	1225
Relinquished by: (signature) Ebony Lewis 12/6/12	1623
Received by: (signature) 12/6/12	1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

*** Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V=vial, S=summa can, T=tedlar bag, O=Other

** Preservation: I = Iced, H = HCL, M = Methanol, N = Nitric Acid, S = Sulfuric Acid, B = Sodium bisulfate, X = Na hydroxide, T = Na thiosulfate, O = Other ____

* Matrix Code: GW = groundwater, WW = wastewater, DW = drinking water, A = air, S = soil/solid, SL = sludge, O = other ____

Dissolved Metals: ○ Field Filtered ○ Lab to Filter

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Rev 04.05.12

12L0695

Company Name: TRC Solutions
Address: ~~Charlie~~ 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Hayes

Telephone: 207 774 2015
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8 Bal soil lot, cyanide, EPH	TAL 23 Metals, % solids	TCLP lead + SPLP lead Hold All	Don't run	PCB soxhlet	TAL metals					
																		# of Containers
								1	1	1								** Preservation
								A	A	A								***Container Code
04 11 X	~~T-GP-4 (4-6) hold~~	~~12/5/12~~	~~1230~~		X	S		X	X			X	X				Don't run - MEK	
12 X	T-GP-5 (0-1)		1255					X	X									
13 X	T-GP-5 (1-1.5)		1300					X	X	X	X							
14 X	T-GP-5 (6-8) hold		1305					X	X									
15 X	T-GP-6 (0-1)		1325					X	X									
16 MC X	T-GP-6 (1.5-3.5) hold		1330					X	X									
17 X	T-GP-7 (0-1)		1400					X	X	X	X							
18 X	T-GP-7 (1-2.5) hold		1405					X	X		X							
19 X	T-GP-8 (0-1)		1430					X	X		X							
20 X	T-GP-8 (1-2.5) hold		1435					X	X		X							

Comments: Hold TCLP & SPLP
Note: Holds above
sample dates 12/4/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

ANALYSIS REQUESTED

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
Stephen Hayes 12/6/12	1225
Received by: (signature)	Date/Time:
Stephen Hayes 12/6/12	1225
Relinquished by: (signature)	Date/Time:
Stephen Hayes 12/6/12	1423
Received by: (signature)	Date/Time:
12/6/12	1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

~~12L0189~~ ME

Rev 04.05.12

12L0695

Company Name: TRC Solutions
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 274 2015
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: CSpringer@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8260 soxhlet, cyanide, EPH	% solids, TAL 23 Metals	TCLP & SPLP (each Hold All)	PCB soxhlet	TAL metals	TC 1P Pb					
								L	L	L								# of Containers
								A	A	A								***Container Code
31 ✓	T-GP-13 (1-3) hold	12/6/12	1005		X	S		X	X									
32 ✓	T-GP-14 (0-1)		1035					X	X									
33 ✓	T-GP-14 (1.5-5.5)		1040					X	X	X			X					
~~34~~ ✓	~~T-GP-14 (6-7) hold~~		~~1045~~					X	X		X	X						
35 ✓	T-GP-15 (0-1)		1145					X	X									
36 ✓	T-GP-15 (1-1.5)		1150					X	X	X								
37 ✓	T-GP-15 (2-6) hold		1155					X	X									
38 ✓	T-GP-16 (0-1)		1240					X	X	X								
39 ✓	Dup-2							X	X	X								
40 ✓	T-GP-16 (1-2.5) hold		1245					X	X									

Comments: Hold all TCLP + SPLP
Note other holds above
☒ Dont run per charlies. MCK 12/20/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Relinquished by: (signature)	Date/Time:
Stephen Mayer 12/6/12	1205
Received by: (signature) Tiffany Lilley 12/6/12	1225
Relinquished by: (signature) Tiffany Lilley 12/6/12	1225
Received by: (signature) 12/6/12	1223

Turnaround ††
O 7-Day
O 10-Day
☒ Other 5
RUSH †
O †24-Hr O †48-Hr
O †72-Hr O †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

~~12L0189~~

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Spranger
Project Location: Windham ME
Sampled By: SM

Telephone: 207 274 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: CSpranger@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 soxhlet, cyanide, EPH	% Solids, TAL 23 Metals	TCLP or SPLP (and Halo 11)	SPLP Pb	# of Containers	** Preservation	***Container Code
												1	1	1
								A	A	A				
41 ✓	T-GP-17 (0-1)	12/5/12	1345		X	S		X	X					
42 ✓	T-GP-17 (1-5.5)		1350					X	X	X	X			
43 ✓	T-GP-17 (10-12) hold		1355					X	X					
44 ✓	H-GP-1 (0-1)		1445					X	X					
45 ✓	H-GP-1 (1.5-5.5)		1450					X	X	X				
46 ✓	H-GP-1 (10-11) hold		1455					X	X					
47 ✓	H-GP-2 (0-1)		1530					X	X					
48 ✓	H-GP-2 (1-6)		1535					X	X	X				
49 ✓	H-GP-2 (6.5-7.5) hold		1540					X	X					
50 ✓	H-GP-3 (0-1)		1600					X	X					

Comments: Hold all TCLP & SPLP
Note other holds above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
[signature]	12/6/12 1225
Received by: (signature)	Date/Time:
[signature]	12/6/12 1225
Relinquished by: (signature)	Date/Time:
[signature]	12/6/12 1623
Received by: (signature)	Date/Time:
[signature]	12/6/12 1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12L0189

Company Name: TRC Environmental
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 774 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 Soxhlet, Cyanide, EPH	% Solids, TAL 23 Metals	TCLP & SPLP Lead (hold all)												# of Containers	** Preservation	***Container Code
																						1	1	1
																						A	A	A
51 ✓	H-GP-3 (2.5-3.5)	12/6/12	1605		X	S		X	X	X														
52 ✓	H-GP-3 (5-7) hold	12/6/12	1610					X	X															
53 X	T-Bank-4-1	12/6/12	0900					X	X															
54 ✓	T-Bank-4-2	12/6/12	0910					X	X															
55 ✓	T-Bank-4-3	12/6/12	0915					X	X															
56 ✓	T-Bank-4-4	12/6/12	0925					X	X															

Comments: Hold all TCLP & SPLP
Note other hold above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
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**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Dissolved Metals
O Field Filtered
O Lab to Filter

Relinquished by: (signature)	Date/Time:
Stephen Mayer	12/6/12 1205
Received by: (signature)	Date/Time:
Fabian Lichy	12/6/12 1225
Relinquished by: (signature)	Date/Time:
Fabian Lichy	12/6/12 425
Received by: (signature)	Date/Time:
	12/6/12 1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East Longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayor

Telephone: 207 274 2615
Project # 191881
Client PO# 51725

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: CSpringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 Soxhlet, Cyanide, EPH	% Solids, TAL 23 Metals	TCLP + SPLP Lead (Hold All)	Dont run													# of Containers	** Preservation	***Container Code
																								1	1	1
																								A	A	A
21 X	T-GP-9 (0-1)	12/5/12	1455		X	X		X	X																	
22 X	T-GP-9 (2.5-6.5) hold		1500					X	X																	
23 X	T-GP-10 (0-1)		1530					X	X			X														
24 X	T-GP-10 (1-3) hold		1535					X	X																	
25 ✓	T-GP-11 (0-1)	12/5/12	0850					X	X																	
26 ✓	T-GP-11 (1-3) hold		0855					X	X																	
27 ✓	T-GP-12 (0-1)		0920					X	X																	
28 ✓	T-GP-12 (1-3) hold		0925					X	X																	
29 ✓	T-GP-13 (0-1)		1000					X	X	X																
30 ✓	Dup-1							X	X	X																

Comments: Hold All TCLP + SPLP
Note holds above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
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S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
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N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
Stephen Mayor 12/6/12	1325
Received by: (signature) Eben Wiley 12/6/12	Date/Time: 1325
Relinquished by: (signature) Eben Wiley 12/6/12	Date/Time: 425
Received by: (signature) 12/6/12	Date/Time: 1633

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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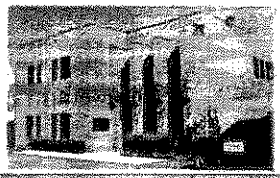
# containers	sample name
	8 1-2.5 (both)
	8 0-1 (both)
11	7 0-1 both
11	7 1-2.5 both
	6 1.5-3.5 1 jar
	6 0-1 1 jar
11	5 0-1 1 jar
111	5 1-1.5 all three
11	4 4-6 [illegible]
11	4 0-1 1 jar
11	9 0-1 1 jar
11	9 2.5-6.5 [illegible]
	8 1-2.5 [illegible]
	8 0-1 both
11	10 1-3 both
11	10 0-1 both

~~1~~	~~1 7-4~~
1	2 6-8 both
	~~1 4-6.5~~
	1 7-9 X both jar
	2-(2-6) X 1 jar
	5 [illegible] 1 jar

T-B-4-1 (jar) both

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: VA/CFC DATE: 12/12/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
   If not, explain:
3) Are all the samples in good condition? Yes No *attached sheet lists samples submerged in water
   If not, explain:
4) How were the samples received:
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ in Cooler(s) ☑
   Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
   Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.7
5) Are there Dissolved samples for the lab to filter? Yes No
   Who was notified _____ Date _____ Time _____
6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
   Who was notified _____ Date _____ Time _____
7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____
9) Do all samples have the proper Base pH: Yes No N/A _____
10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	4
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	112	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: one cooler received with samples submerged under water

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277
Rev. 3 May 2012

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC
Address: 400 Southborough Dr
South Portland, ME 04106
Attention: Chuke Springer
Project Location: Windham, ME
Sampled By: C. Springer

Telephone: 207-274-2615
Project # 191981
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ☒ WEBSITE
Fax #
Email: CSPRINGER@TRCsolutions.com
Format: ☒ PDF ☒ EXCEL ○ GIS ☒ OTHER EGAD
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (Soil/Sed)	EPH + Vph's	TAL metals	Cyanide	TCLP/SPLP Lead/Metals											
								# of Containers	I	I	I	I	I										
								** Preservation	A	A	A	A	A										
								***Container Code															
13	T-GP-5(1-1.5)R	12/10/12	1230		X	S	A		X	X	X	X											
17	T-GP-7(0-1)R	12/10/12	1250		X	S	A		X	X	X	X											
18	T-GP-7(1-2.5)R	12/10/12	1300		X	S	A		X	X	X	X											
19	T-GP-8(0-1)R	12/10/12	1315		X	S	A		X	X	X	X											
23	T-GP-10(0-1)R	12/10/12	1330		X	S	A		X	X	X	X											
29	T-GP-13(0-1)R	12/10/12	1345		X	S	A						X	HOLD									
57	T-GP-18(0-1)R	12/10/12	1400		X	S	A		X	X	X	X											
	~~T-GP-18(1-)R~~	~~12/10/12~~			~~X~~	~~S~~	~~A~~		~~X~~	~~X~~	~~X~~	~~X~~											
58	T-GP-19(0-1)R	12/10/12	1430		X	S	A		X	X	X	X											

Comments: HOLD T-GP-13(0-1)R FOR TCLP/SPLP Lead

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
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M = Methanol
N = Nitric Acid
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B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 12/10/12 1700	
Received by: (signature) Benny McMee 4.2°C	Date/Time: 12/11/12 10:14	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Turnaround ††
☒ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: None

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

FedEx.

876902141706

Ship (P/U) date :
Mon 12/10/2012 5:31 pm
SPO US

Delivered
Signed for by: M.KOPY

Actual delivery :
Tues 12/11/2012 10:14 am
US

Travel History

Date/Time	Activity	Location
- 12/11/2012 - Tuesday		
10:14 am	Delivered	
7:59 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:48 am	At local FedEx facility	WINDSOR LOCKS, CT
6:56 am	At destination sort facility	EAST GRANBY, CT
3:54 am	Departed FedEx location	MEMPHIS, TN
- 12/10/2012 - Monday		
11:48 pm	Arrived at FedEx location	MEMPHIS, TN
8:09 pm	Left FedEx origin facility	PORTLAND, ME
5:31 pm	Picked up	PORTLAND, ME

Local Scan Time

Shipment Facts

Tracking number	876902141706	**Service**	FedEx Priority Overnight
Dimensions	21x15x15 in.	**Delivered To**	Shipping/Receiving
Total pieces	1	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Direct Signature Required, Additional Handling Surcharge		

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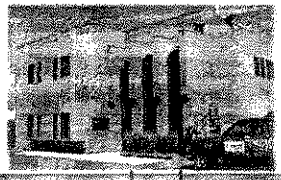
Sample Receipt Checklist



CLIENT NAME: TRC RECEIVED BY: KKM DATE: 12/11/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice [✓] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.2

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	15
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277
Rev. 3 May 2012

Meghan Kelley

From: Springer, Charles (S.Portland,ME-US) [CSpringer@trcsolutions.com]
Sent: Wednesday, December 19, 2012 5:14 PM
To: Meghan Kelley
Cc: Fitzgerald, Lawrence (Augusta,ME-US); Sullivan, Dave (Lowell,MA-US); Race, Charles; Springer, Charles (S.Portland,ME-US)
Subject: Additional Little Falls Samples for Analysis

Hi Meghan –

Please take the below samples off hold and run for the indicated analysis. 7 day TAT. I need the data by the 28th of December.

- T-GP-2 (6-8) – PCBs, EPH (+targets), TAL Metals, Cyanide – Don't run per Charlie Springer – MEK 12/21/12
- T-GP-4 (2.5-6.5) – PCBs, EPH (+targets), TAL Metals, Cyanide – Don't run per Charlie Springer
- T-GP-14 (6-7) – PCBs, EPH (+targets), TAL Metals, Cyanide – Don't run per Charlie S. MEK 12/20/12

- T-GP-2 (2-6) – TCLP Lead
- T-GP-4 (0-1) – TCLP Lead
- T-GP-14 (1.5-5.5) – TCLP Lead
- T-GP-17 (1-1.5) – SPLP Lead

Please confirm that the samples are being run.

Regards,

Charlie

Per Charlie Springer, analyze T-GP-4(4-6) Not T-GP-4 (2.5-6.5). For the three samples *'d above, only run PCB soxhlet and TAL metals. MEK 12/20/2012

Charles D. Springer, CG, CHMM
Project Manager

400 Southborough Drive, South Portland, Maine 04106
T: 207.274.2615 | F: 207.879.9293 | C: 207.317.1111

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January 3, 2013

Charles Springer
TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106

Project Location: Windham, ME
Client Job Number:
Project Number: 191981.000002
Laboratory Work Order Number: 12L0189

Enclosed are results of analyses for samples received by the laboratory on December 6, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-1 (0-1)	12L0189-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-1 (4-6.5)	12L0189-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-2 (0-1)	12L0189-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-2 (2-6)	12L0189-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-3 (0-1)	12L0189-07	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-3 (1-1.5)	12L0189-08	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-3 (5-7)	12L0189-09	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-4 (0-1)	12L0189-10	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-5 (0-1)	12L0189-12	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-5 (1-1.5) R	12L0189-13	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-5 (6-8)	12L0189-14	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-6 (0-1)	12L0189-15	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-7 (0-1) R	12L0189-17	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-7 (1-2.5) R	12L0189-18	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-8 (0-1) R	12L0189-19	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-9 (0-1)	12L0189-21	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-10 (0-1) R	12L0189-23	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-11 (0-1)	12L0189-25	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-12 (0-1)	12L0189-27	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-13 (0-1)	12L0189-29	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
Dup-1	12L0189-30	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-13 (1-3)	12L0189-31	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-14 (0-1)	12L0189-32	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-14 (1.5-5.5)	12L0189-33	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
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REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-14 (6-7)	12L0189-34	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-15 (0-1)	12L0189-35	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-15 (1-1.5)	12L0189-36	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-15 (2-6)	12L0189-37	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-16 (0-1)	12L0189-38	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
Dup-2	12L0189-39	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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400 Southborough Drive
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REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-16 (1-2.5)	12L0189-40	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-17 (0-1)	12L0189-41	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-17 (1-5.5)	12L0189-42	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-17 (10-12)	12L0189-43	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-1 (0-1)	12L0189-44	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-1 (1.5-5.5)	12L0189-45	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
H-GP-1 (10-11)	12L0189-46	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-2 (0-1)	12L0189-47	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-2 (1-6)	12L0189-48	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-2 (6.5-7.5)	12L0189-49	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-3 (0-1)	12L0189-50	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
H-GP-3 (2.5-3.5)	12L0189-51	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
400 Southborough Drive
South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
H-GP-3 (5-7)	12L0189-52	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-4-1	12L0189-53	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-4-2	12L0189-54	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-4-3	12L0189-55	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-Bank-4-4	12L0189-56	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	
T-GP-18 (0-1) R	12L0189-57	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

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TRC Environmental - ME
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South Portland, ME 04106
ATTN: Charles Springer

REPORT DATE: 1/3/2013

PURCHASE ORDER NUMBER: 51725

PROJECT NUMBER: 191981.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0189

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Windham, ME

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
T-GP-19 (0-1) R	12L0189-58	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 9014	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 01/03/2013 - Sample 12L0189-18 analyzed and reported per clients request.

REVISED REPORT - 12/26/2012 - Sample ID revised for 12L0189-29 per clients request.

For method 6010, Sb hits for samples 12L0189-02 , 05, 29, 32, 33, 35, 38, 39, 42, and 58 and Be hit for sample 12L0189-35 were confirmed by method 6020.

For method 8082, a 5x dilution was performed as standard preparation for this method.

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MADEP-EPH-04-1.1

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

n-Decane, n-Nonane

B064513-BSD1, B064255-BS1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Nonane

12L0189-41[T-GP-17 (0-1)], B064285-MS1, B064285-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Nonane

B064285-MS1, B064255-MSD1

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics

12L0189-51[H-GP-3 (2.5-3.5)]

SW-846 6010C

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Copper

12L0189-05[T-GP-2 (2-6)], 12L0189-07[T-GP-3 (0-1)], 12L0189-08[T-GP-3 (1-1.5)], 12L0189-10[T-GP-4 (0-1)], 12L0189-12[T-GP-5 (0-1)], 12L0189-15[T-GP-6 (0-1)], 12L0189-21[T-GP-9 (0-1)], 12L0189-25[T-GP-11 (0-1)], 12L0189-27[T-GP-12 (0-1)], 12L0189-29[T-GP-13 (0-1)], 12L0189-30[Dup-1], 12L0189-32[T-GP-14 (0-1)], 12L0189-33[T-GP-14 (1.5-5.5)], 12L0189-35[T-GP-15 (0-1)], 12L0189-36[T-GP-15 (1-1.5)], 12L0189-38[T-GP-16 (0-1)], 12L0189-39[Dup-2], 12L0189-41[T-GP-17 (0-1)], 12L0189-42[T-GP-17 (1-5.5)], 12L0189-44[H-GP-1 (0-1)], B064261-BS1, B064261-BSD1, B064261-DUP1, B064261-MS1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Copper

12L0189-05[T-GP-2 (2-6)], 12L0189-07[T-GP-3 (0-1)], 12L0189-08[T-GP-3 (1-1.5)], 12L0189-10[T-GP-4 (0-1)], 12L0189-12[T-GP-5 (0-1)], 12L0189-15[T-GP-6 (0-1)], 12L0189-21[T-GP-9 (0-1)], 12L0189-25[T-GP-11 (0-1)], 12L0189-27[T-GP-12 (0-1)], 12L0189-29[T-GP-13 (0-1)], 12L0189-30[Dup-1], 12L0189-32[T-GP-14 (0-1)], 12L0189-33[T-GP-14 (1.5-5.5)], 12L0189-35[T-GP-15 (0-1)], 12L0189-36[T-GP-15 (1-1.5)], 12L0189-38[T-GP-16 (0-1)], 12L0189-39[Dup-2], 12L0189-41[T-GP-17 (0-1)], 12L0189-42[T-GP-17 (1-5.5)], 12L0189-44[H-GP-1 (0-1)], B064261-BLK1, B064261-DUP1

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Beryllium, Selenium, Thallium

12L0189-09[T-GP-3 (5-7)], 12L0189-12[T-GP-5 (0-1)], 12L0189-14[T-GP-5 (6-8)], 12L0189-19[T-GP-8 (0-1) R], 12L0189-21[T-GP-9 (0-1)], 12L0189-25[T-GP-11 (0-1)], 12L0189-27[T-GP-12 (0-1)], 12L0189-31[T-GP-13 (1-3)], 12L0189-34[T-GP-14 (6-7)], 12L0189-37[T-GP-15 (2-6)], 12L0189-40[T-GP-16 (1-2.5)], 12L0189-43[T-GP-17 (10-12)], 12L0189-48[H-GP-2 (1-6)], 12L0189-50[H-GP-3 (0-1)], 12L0189-51[H-GP-3 (2.5-3.5)], 12L0189-58[T-GP-19 (0-1) R], B064353-DUP1, 12L0189-01[T-GP-1 (0-1)], 12L0189-04[T-GP-2 (0-1)]

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:

Lead

12L0189-05[T-GP-2 (2-6)], 12L0189-07[T-GP-3 (0-1)], 12L0189-08[T-GP-3 (1-1.5)], 12L0189-10[T-GP-4 (0-1)], 12L0189-12[T-GP-5 (0-1)], 12L0189-15[T-GP-6 (0-1)], 12L0189-21[T-GP-9 (0-1)], 12L0189-25[T-GP-11 (0-1)], 12L0189-27[T-GP-12 (0-1)], 12L0189-29[T-GP-13 (0-1)], 12L0189-30[Dup-1], 12L0189-32[T-GP-14 (0-1)], 12L0189-33[T-GP-14 (1.5-5.5)], 12L0189-35[T-GP-15 (0-1)], 12L0189-36[T-GP-15 (1-1.5)], 12L0189-38[T-GP-16 (0-1)], 12L0189-39[Dup-2], 12L0189-41[T-GP-17 (0-1)], 12L0189-42[T-GP-17 (1-5.5)], 12L0189-44[H-GP-1 (0-1)], B064261-DUP1, B064261-MRL1

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

12L0189-09[T-GP-3 (5-7)], 12L0189-44[H-GP-1 (0-1)], B064261-MS1, B064353-MS1

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum, Calcium, Iron, Magnesium, Manganese, Sodium

12L0189-09[T-GP-3 (5-7)], 12L0189-44[H-GP-1 (0-1)], B064261-MS1, B064353-MS1

SW-846 8082A

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B064277-BS1

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B064489-MSD1, B064489-MS1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12L0189-18[T-GP-7 (1-2.5) R]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B064277-BS1, B064277-BSD1

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SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Chemist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (0-1)
Sampled: 12/4/2012 09:45

Sample ID: 12L0189-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1254 [2]	0.14	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.1	30-150		12/10/12 19:22
Decachlorobiphenyl [2]	87.5	30-150		12/10/12 19:22
Tetrachloro-m-xylene [1]	78.4	30-150		12/10/12 19:22
Tetrachloro-m-xylene [2]	77.5	30-150		12/10/12 19:22

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Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (0-1) | Sampled: 12/4/2012 09:45

Sample ID: 12L0189-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
C19-C36 Aliphatics	21	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Unadjusted C11-C22 Aromatics	26	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
C11-C22 Aromatics	26	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Benzo(g,h,i)perylene	0.12	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Chrysene	0.14	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Fluoranthene	0.17	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Phenanthrene	0.12	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS
Pyrene	0.18	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.1	40-140		12/11/12 14:30
o-Terphenyl (OTP)	67.9	40-140		12/11/12 14:30
2-Bromonaphthalene	65.3	40-140		12/11/12 14:30
2-Fluorobiphenyl	83.1	40-140		12/11/12 14:30

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Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (0-1) | Sampled: 12/4/2012 09:45

Sample ID: 12L0189-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7700	2.8	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Barium	84	2.8	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Cadmium	0.43	0.28	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Calcium	1800	8.5	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Chromium	170	0.57	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Cobalt	12	2.8	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Copper	72	0.57	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Iron	66000	28	mg/Kg dry	10		SW-846 6010C	12/8/12	12/11/12 17:05	OP
Lead	50	0.85	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Magnesium	4000	8.5	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Manganese	710	0.57	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Mercury	0.13	0.030	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:12	SAJ
Nickel	84	0.57	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Potassium	2500	110	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Selenium	ND	11	mg/Kg dry	2	DL-04	SW-846 6010C	12/8/12	12/11/12 12:40	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Sodium	150	110	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Thallium	ND	5.7	mg/Kg dry	2	DL-04	SW-846 6010C	12/8/12	12/11/12 12:40	OP
Vanadium	56	1.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP
Zinc	66	1.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:28	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (0-1)
Sampled: 12/4/2012 09:45

Sample ID: 12L0189-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.33	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	84.2		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (4-6.5)
Sampled: 12/4/2012 09:50

Sample ID: 12L0189-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.3	30-150		12/10/12 19:34
Decachlorobiphenyl [2]	89.2	30-150		12/10/12 19:34
Tetrachloro-m-xylene [1]	79.8	30-150		12/10/12 19:34
Tetrachloro-m-xylene [2]	79.2	30-150		12/10/12 19:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-1 (4-6.5)
Sampled: 12/4/2012 09:50
Sample ID: 12L0189-02
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
C19-C36 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Unadjusted C11-C22 Aromatics	21	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
C11-C22 Aromatics	21	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Phenanthrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 14:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.1	40-140		12/11/12 14:51
o-Terphenyl (OTP)	53.5	40-140		12/11/12 14:51
2-Bromonaphthalene	72.5	40-140		12/11/12 14:51
2-Fluorobiphenyl	82.5	40-140		12/11/12 14:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (4-6.5) | Sampled: 12/4/2012 09:50

Sample ID: 12L0189-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Antimony	5.4	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Arsenic	7.1	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Barium	160	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Cadmium	ND	0.31	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Calcium	45000	9.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Chromium	29	0.63	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Cobalt	9.0	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Copper	15	0.63	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Iron	16000	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/11/12 12:21	OP
Lead	48	0.94	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Magnesium	5200	9.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Manganese	280	0.63	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Mercury	0.074	0.032	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:13	SAJ
Nickel	18	0.63	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Potassium	3300	130	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Silver	ND	0.63	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Sodium	150	130	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Vanadium	33	1.3	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP
Zinc	33	1.3	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:32	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-1 (4-6.5)
Sampled: 12/4/2012 09:50

Sample ID: 12L0189-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.43	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	77.5		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (0-1)
Sampled: 12/4/2012 10:50

Sample ID: 12L0189-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1254 [1]	0.36	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 19:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.9	30-150		12/10/12 19:47
Decachlorobiphenyl [2]	79.6	30-150		12/10/12 19:47
Tetrachloro-m-xylene [1]	77.6	30-150		12/10/12 19:47
Tetrachloro-m-xylene [2]	75.4	30-150		12/10/12 19:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-2 (0-1)
Sampled: 12/4/2012 10:50
Sample ID: 12L0189-04
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
C19-C36 Aliphatics	99	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Unadjusted C11-C22 Aromatics	120	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
C11-C22 Aromatics	97	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Acenaphthylene	0.21	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Anthracene	0.31	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Benzo(a)anthracene	1.5	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Benzo(a)pyrene	1.9	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Benzo(b)fluoranthene	2.5	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Benzo(g,h,i)perylene	1.1	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Benzo(k)fluoranthene	0.94	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Chrysene	1.8	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Dibenz(a,h)anthracene	0.32	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Fluoranthene	2.3	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Indeno(1,2,3-cd)pyrene	1.3	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Naphthalene	0.24	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Phenanthrene	0.93	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS
Pyrene	2.7	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.5	40-140		12/11/12 15:12
o-Terphenyl (OTP)	64.0	40-140		12/11/12 15:12
2-Bromonaphthalene	73.8	40-140		12/11/12 15:12
2-Fluorobiphenyl	88.0	40-140		12/11/12 15:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (0-1) | Sampled: 12/4/2012 10:50

Sample ID: 12L0189-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	3.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Arsenic	ND	3.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Barium	130	3.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Cadmium	1.1	0.34	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Calcium	5800	10	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Chromium	220	0.68	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Cobalt	12	3.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Copper	200	0.68	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Iron	110000	34	mg/Kg dry	10		SW-846 6010C	12/8/12	12/11/12 12:55	OP
Lead	330	1.0	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Magnesium	3500	10	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Manganese	820	0.68	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Mercury	0.75	0.069	mg/Kg dry	2		SW-846 7471B	12/8/12	12/10/12 12:54	SAJ
Nickel	75	0.68	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Potassium	1700	140	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Selenium	ND	14	mg/Kg dry	2	DL-04	SW-846 6010C	12/8/12	12/11/12 12:44	OP
Silver	ND	0.68	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Thallium	ND	6.8	mg/Kg dry	2	DL-04	SW-846 6010C	12/8/12	12/11/12 12:44	OP
Vanadium	47	1.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP
Zinc	270	1.4	mg/Kg dry	1		SW-846 6010C	12/8/12	12/10/12 13:37	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (0-1)
Sampled: 12/4/2012 10:50

Sample ID: 12L0189-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.62	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	70.6		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-2 (2-6)
Sampled: 12/4/2012 10:55
Sample ID: 12L0189-05
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:16	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	119	30-150		12/11/12 14:16
Decachlorobiphenyl [2]	110	30-150		12/11/12 14:16
Tetrachloro-m-xylene [1]	111	30-150		12/11/12 14:16
Tetrachloro-m-xylene [2]	117	30-150		12/11/12 14:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (2-6) | Sampled: 12/4/2012 10:55

Sample ID: 12L0189-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
C19-C36 Aliphatics	94	37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Unadjusted C11-C22 Aromatics	84	37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
C11-C22 Aromatics	72	37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Acenaphthene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Acenaphthylene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Anthracene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Benzo(a)anthracene	0.93	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Benzo(a)pyrene	1.4	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Benzo(b)fluoranthene	1.5	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Benzo(g,h,i)perylene	0.89	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Benzo(k)fluoranthene	0.52	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Chrysene	1.1	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Fluoranthene	1.7	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Fluorene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Indeno(1,2,3-cd)pyrene	0.92	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
2-Methylnaphthalene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Naphthalene	ND	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Phenanthrene	1.2	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS
Pyrene	1.7	0.37	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.2	40-140		12/11/12 15:33
o-Terphenyl (OTP)	56.2	40-140		12/11/12 15:33
2-Bromonaphthalene	68.6	40-140		12/11/12 15:33
2-Fluorobiphenyl	79.7	40-140		12/11/12 15:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (2-6) | Sampled: 12/4/2012 10:55

Sample ID: 12L0189-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8500	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Antimony	14	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Arsenic	9.7	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Barium	280	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Beryllium	ND	0.46	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Cadmium	1.1	0.46	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Calcium	13000	14	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Chromium	48	0.93	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Cobalt	8.9	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Copper	510	0.93	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 20:14	OP
Iron	43000	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 12:06	OP
Lead	1500	1.4	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 12:06	OP
Magnesium	3600	14	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Manganese	480	0.93	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Mercury	2.9	0.23	mg/Kg dry	5		SW-846 7471B	12/8/12	12/10/12 12:56	SAJ
Nickel	23	0.93	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 12:06	OP
Potassium	2000	190	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Selenium	ND	9.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Silver	ND	0.93	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Sodium	ND	190	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Thallium	ND	4.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Vanadium	27	1.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP
Zinc	480	1.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:14	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-2 (2-6)
Sampled: 12/4/2012 10:55

Sample ID: 12L0189-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	2.1	0.63	mg/Kg dry	1		SW-846 9014	12/15/12	12/15/12 14:15	VAK
% Solids	53.5		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (0-1)
Sampled: 12/4/2012 11:45

Sample ID: 12L0189-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1254 [2]	0.17	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:11	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.3	30-150		12/10/12 20:11
Decachlorobiphenyl [2]	82.5	30-150		12/10/12 20:11
Tetrachloro-m-xylene [1]	74.0	30-150		12/10/12 20:11
Tetrachloro-m-xylene [2]	72.6	30-150		12/10/12 20:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (0-1) | Sampled: 12/4/2012 11:45

Sample ID: 12L0189-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Unadjusted C11-C22 Aromatics	17	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
C11-C22 Aromatics	17	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Fluoranthene	0.14	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 15:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	48.3	40-140		12/11/12 15:54
o-Terphenyl (OTP)	42.8	40-140		12/11/12 15:54
2-Bromonaphthalene	68.7	40-140		12/11/12 15:54
2-Fluorobiphenyl	81.9	40-140		12/11/12 15:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (0-1) | Sampled: 12/4/2012 11:45

Sample ID: 12L0189-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Arsenic	7.3	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Barium	150	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Cadmium	0.39	0.31	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Calcium	2600	9.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Chromium	39	0.62	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Cobalt	9.7	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Copper	37	0.62	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 20:50	OP
Iron	18000	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:09	OP
Lead	160	0.93	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:09	OP
Magnesium	4800	9.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Manganese	490	0.62	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Mercury	0.85	0.061	mg/Kg dry	2		SW-846 7471B	12/8/12	12/10/12 12:57	SAJ
Nickel	27	0.62	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:09	OP
Potassium	2200	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Vanadium	38	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP
Zinc	98	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:50	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (0-1)
Sampled: 12/4/2012 11:45

Sample ID: 12L0189-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.62	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	80.1		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (1-1.5)
Sampled: 12/4/2012 11:50

Sample ID: 12L0189-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/7/12	12/11/12 14:29	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		12/11/12 14:29
Decachlorobiphenyl [2]	106	30-150		12/11/12 14:29
Tetrachloro-m-xylene [1]	112	30-150		12/11/12 14:29
Tetrachloro-m-xylene [2]	119	30-150		12/11/12 14:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-3 (1-1.5)
Sampled: 12/4/2012 11:50
Sample ID: 12L0189-08
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Unadjusted C11-C22 Aromatics	20	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
C11-C22 Aromatics	17	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Anthracene	0.13	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Benzo(a)anthracene	0.20	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Benzo(a)pyrene	0.28	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Benzo(b)fluoranthene	0.28	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Benzo(g,h,i)perylene	0.12	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Chrysene	0.26	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Fluoranthene	0.50	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Indeno(1,2,3-cd)pyrene	0.14	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Phenanthrene	0.60	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS
Pyrene	0.44	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.3	40-140		12/11/12 16:15
o-Terphenyl (OTP)	57.6	40-140		12/11/12 16:15
2-Bromonaphthalene	67.0	40-140		12/11/12 16:15
2-Fluorobiphenyl	80.5	40-140		12/11/12 16:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (1-1.5) | Sampled: 12/4/2012 11:50

Sample ID: 12L0189-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Barium	150	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Calcium	7100	8.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Chromium	35	0.58	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Cobalt	9.1	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Copper	21	0.58	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 20:54	OP
Iron	14000	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:12	OP
Lead	32	0.87	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:12	OP
Magnesium	5500	8.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Manganese	240	0.58	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Mercury	0.61	0.059	mg/Kg dry	2		SW-846 7471B	12/8/12	12/10/12 12:59	SAJ
Nickel	31	0.58	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:12	OP
Potassium	3900	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Sodium	130	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Vanadium	34	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP
Zinc	45	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:54	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (1-1.5)
Sampled: 12/4/2012 11:50

Sample ID: 12L0189-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.59	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	82.3		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (5-7)
Sampled: 12/4/2012 11:55

Sample ID: 12L0189-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.7	30-150		12/11/12 19:33
Decachlorobiphenyl [2]	92.2	30-150		12/11/12 19:33
Tetrachloro-m-xylene [1]	80.4	30-150		12/11/12 19:33
Tetrachloro-m-xylene [2]	82.2	30-150		12/11/12 19:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-3 (5-7)
Sampled: 12/4/2012 11:55
Sample ID: 12L0189-09
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:24	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	57.4	40-140		12/12/12 19:24
o-Terphenyl (OTP)	49.8	40-140		12/12/12 19:24
2-Bromonaphthalene	67.8	40-140		12/12/12 19:24
2-Fluorobiphenyl	76.2	40-140		12/12/12 19:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (5-7) | Sampled: 12/4/2012 11:55

Sample ID: 12L0189-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	35000	2.7	mg/Kg dry	1	MS-19	SW-846 6010C	12/11/12	12/12/12 10:21	OP
Antimony	ND	2.7	mg/Kg dry	1	MS-07	SW-846 6010C	12/11/12	12/11/12 19:27	OP
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Barium	300	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:43	OP
Cadmium	0.36	0.27	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Calcium	4100	8.1	mg/Kg dry	1	MS-19	SW-846 6010C	12/11/12	12/11/12 19:27	OP
Chromium	120	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Cobalt	22	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Copper	17	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 10:21	OP
Iron	41000	13	mg/Kg dry	5	MS-19	SW-846 6010C	12/11/12	12/12/12 18:16	OP
Lead	3.2	0.81	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 10:21	OP
Magnesium	22000	40	mg/Kg dry	5	MS-19	SW-846 6010C	12/11/12	12/12/12 18:16	OP
Manganese	630	0.54	mg/Kg dry	1	MS-19	SW-846 6010C	12/11/12	12/11/12 19:27	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 11:58	SAJ
Nickel	66	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 10:21	OP
Potassium	16000	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 10:21	OP
Sodium	600	110	mg/Kg dry	1	MS-19	SW-846 6010C	12/11/12	12/11/12 19:27	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 10:21	OP
Vanadium	100	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP
Zinc	76	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 19:27	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-3 (5-7)
Sampled: 12/4/2012 11:55

Sample ID: 12L0189-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.54	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	91.6		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-4 (0-1)
Sampled: 12/4/2012 12:25

Sample ID: 12L0189-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1254 [2]	0.20	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 20:36	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.8	30-150		12/10/12 20:36
Decachlorobiphenyl [2]	84.0	30-150		12/10/12 20:36
Tetrachloro-m-xylene [1]	77.8	30-150		12/10/12 20:36
Tetrachloro-m-xylene [2]	77.0	30-150		12/10/12 20:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-4 (0-1)
Sampled: 12/4/2012 12:25
Sample ID: 12L0189-10
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
C19-C36 Aliphatics	73	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Unadjusted C11-C22 Aromatics	50	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
C11-C22 Aromatics	48	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Benzo(a)anthracene	0.19	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Benzo(a)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Benzo(b)fluoranthene	0.29	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Benzo(g,h,i)perylene	0.15	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Chrysene	0.25	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Fluoranthene	0.38	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Phenanthrene	0.41	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS
Pyrene	0.35	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	52.8	40-140		12/11/12 16:36
o-Terphenyl (OTP)	46.6	40-140		12/11/12 16:36
2-Bromonaphthalene	71.6	40-140		12/11/12 16:36
2-Fluorobiphenyl	84.2	40-140		12/11/12 16:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-4 (0-1) | Sampled: 12/4/2012 12:25

Sample ID: 12L0189-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Arsenic	4.5	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Barium	740	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Cadmium	1.6	0.34	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Calcium	21000	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Chromium	54	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Cobalt	9.4	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Copper	120	0.68	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 20:59	OP
Iron	21000	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:17	OP
Lead	770	1.0	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:17	OP
Magnesium	11000	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Manganese	680	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Mercury	30	3.6	mg/Kg dry	100		SW-846 7471B	12/11/12	12/11/12 12:44	SAJ
Nickel	24	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:17	OP
Potassium	2100	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Selenium	ND	6.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Silver	ND	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Vanadium	48	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP
Zinc	540	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 20:59	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-4 (0-1)
Sampled: 12/4/2012 12:25

Sample ID: 12L0189-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.6	0.60	mg/Kg dry	1		SW-846 9014	12/15/12	12/15/12 14:15	VAK
% Solids	70.0		% Wt	1		SM 2540G	12/7/12	12/8/12 10:29	EW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (0-1) | Sampled: 12/4/2012 12:55

Sample ID: 12L0189-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1221 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1232 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1242 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1248 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1254 [2]	2.7	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1260 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1262 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG
Aroclor-1268 [1]	ND	0.65	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:42	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		12/11/12 14:42
Decachlorobiphenyl [2]	101	30-150		12/11/12 14:42
Tetrachloro-m-xylene [1]	103	30-150		12/11/12 14:42
Tetrachloro-m-xylene [2]	103	30-150		12/11/12 14:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-5 (0-1)
Sampled: 12/4/2012 12:55
Sample ID: 12L0189-12
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
C19-C36 Aliphatics	54	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Unadjusted C11-C22 Aromatics	36	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
C11-C22 Aromatics	33	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Benzo(a)anthracene	0.27	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Benzo(b)fluoranthene	0.37	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Benzo(g,h,i)perylene	0.23	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Benzo(k)fluoranthene	0.14	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Chrysene	0.31	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Fluoranthene	0.57	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Indeno(1,2,3-cd)pyrene	0.20	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Phenanthrene	0.48	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS
Pyrene	0.53	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 16:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	69.9	40-140		12/11/12 16:56
o-Terphenyl (OTP)	62.1	40-140		12/11/12 16:56
2-Bromonaphthalene	68.4	40-140		12/11/12 16:56
2-Fluorobiphenyl	81.0	40-140		12/11/12 16:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (0-1) | Sampled: 12/4/2012 12:55

Sample ID: 12L0189-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Antimony	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Arsenic	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Barium	230	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Beryllium	ND	1.6	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/11/12 16:45	OP
Cadmium	1.1	0.32	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Calcium	3700	9.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Chromium	78	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Cobalt	13	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Copper	140	0.63	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:04	OP
Iron	33000	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:43	OP
Lead	190	0.95	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:43	OP
Magnesium	7800	9.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Manganese	580	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Mercury	0.34	0.032	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:28	SAJ
Nickel	54	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:43	OP
Potassium	5100	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Silver	ND	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Sodium	180	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Vanadium	52	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP
Zinc	220	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:04	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (0-1)
Sampled: 12/4/2012 12:55

Sample ID: 12L0189-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.55	mg/Kg dry	1		SW-846 9014	12/15/12	12/15/12 14:15	VAK
% Solids	76.0		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (1-1.5) R
Sampled: 12/10/2012 12:30

Sample ID: 12L0189-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1254 [1]	0.53	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 20:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.3	30-150		12/13/12 20:27
Decachlorobiphenyl [2]	102	30-150		12/13/12 20:27
Tetrachloro-m-xylene [1]	94.4	30-150		12/13/12 20:27
Tetrachloro-m-xylene [2]	93.5	30-150		12/13/12 20:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (1-1.5) R | Sampled: 12/10/2012 12:30

Sample ID: 12L0189-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	14	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
C19-C36 Aliphatics	55	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Unadjusted C11-C22 Aromatics	63	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
C11-C22 Aromatics	51	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Acenaphthene	0.17	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Anthracene	0.37	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Benzo(a)anthracene	0.86	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Benzo(a)pyrene	1.1	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Benzo(b)fluoranthene	1.2	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Benzo(g,h,i)perylene	0.51	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Benzo(k)fluoranthene	0.42	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Chrysene	0.97	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Dibenz(a,h)anthracene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Fluoranthene	1.8	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Fluorene	0.23	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Indeno(1,2,3-cd)pyrene	0.62	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
2-Methylnaphthalene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Naphthalene	0.19	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Phenanthrene	1.5	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS
Pyrene	1.8	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	72.2	40-140		12/12/12 13:11
o-Terphenyl (OTP)	66.8	40-140		12/12/12 13:11
2-Bromonaphthalene	77.5	40-140		12/12/12 13:11
2-Fluorobiphenyl	87.0	40-140		12/12/12 13:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (1-1.5) R | Sampled: 12/10/2012 12:30

Sample ID: 12L0189-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Arsenic	8.3	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Barium	150	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Cadmium	1.2	0.31	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 12:29	OP
Calcium	3800	9.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Chromium	63	0.62	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Cobalt	14	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 12:29	OP
Copper	320	0.62	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Iron	36000	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Lead	160	0.93	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Magnesium	6900	9.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Manganese	430	0.62	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Mercury	0.23	0.030	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:39	SAJ
Nickel	42	0.62	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Potassium	4600	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Sodium	150	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 12:29	OP
Vanadium	49	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP
Zinc	160	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:31	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (1-1.5) R
Sampled: 12/10/2012 12:30

Sample ID: 12L0189-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.99	0.55	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	80.4		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (6-8)
Sampled: 12/4/2012 13:05

Sample ID: 12L0189-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.2	30-150		12/11/12 19:46
Decachlorobiphenyl [2]	113	30-150		12/11/12 19:46
Tetrachloro-m-xylene [1]	95.8	30-150		12/11/12 19:46
Tetrachloro-m-xylene [2]	98.5	30-150		12/11/12 19:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-5 (6-8)
Sampled: 12/4/2012 13:05
Sample ID: 12L0189-14
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 19:44	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.9	40-140		12/12/12 19:44
o-Terphenyl (OTP)	57.4	40-140		12/12/12 19:44
2-Bromonaphthalene	78.6	40-140		12/12/12 19:44
2-Fluorobiphenyl	86.9	40-140		12/12/12 19:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (6-8) | Sampled: 12/4/2012 13:05

Sample ID: 12L0189-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	24000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Barium	320	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:09	OP
Cadmium	0.32	0.26	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Calcium	2000	7.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Chromium	150	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Cobalt	18	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Copper	9.5	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Iron	29000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Lead	2.0	0.78	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Magnesium	17000	7.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Manganese	530	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:01	SAJ
Nickel	61	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Potassium	16000	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Sodium	170	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:18	OP
Vanadium	82	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP
Zinc	56	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:09	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-5 (6-8)
Sampled: 12/4/2012 13:05

Sample ID: 12L0189-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.43	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	94.6		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-6 (0-1) | Sampled: 12/4/2012 13:25

Sample ID: 12L0189-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1221 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1232 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1242 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1248 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1254 [2]	4.6	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1260 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1262 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG
Aroclor-1268 [1]	ND	0.66	mg/Kg dry	25		SW-846 8082A	12/7/12	12/11/12 14:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		12/11/12 14:55
Decachlorobiphenyl [2]	103	30-150		12/11/12 14:55
Tetrachloro-m-xylene [1]	100	30-150		12/11/12 14:55
Tetrachloro-m-xylene [2]	100	30-150		12/11/12 14:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-6 (0-1)
Sampled: 12/4/2012 13:25
Sample ID: 12L0189-15
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
C19-C36 Aliphatics	23	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Unadjusted C11-C22 Aromatics	20	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
C11-C22 Aromatics	20	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Phenanthrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 22:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.7	40-140		12/11/12 22:29
o-Terphenyl (OTP)	59.1	40-140		12/11/12 22:29
2-Bromonaphthalene	62.0	40-140		12/11/12 22:29
2-Fluorobiphenyl	71.8	40-140		12/11/12 22:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-6 (0-1) | Sampled: 12/4/2012 13:25

Sample ID: 12L0189-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Antimony	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Arsenic	18	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Barium	120	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Cadmium	0.44	0.32	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Calcium	2400	9.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Chromium	51	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Cobalt	11	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Copper	42	0.64	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:08	OP
Iron	20000	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:46	OP
Lead	99	0.96	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:46	OP
Magnesium	5900	9.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Manganese	300	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Mercury	0.20	0.033	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:29	SAJ
Nickel	39	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:46	OP
Potassium	2300	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Sodium	130	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Vanadium	40	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP
Zinc	88	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:08	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-6 (0-1)
Sampled: 12/4/2012 13:25

Sample ID: 12L0189-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.67	mg/Kg dry	1		SW-846 9014	12/15/12	12/15/12 14:15	VAK
% Solids	73.8		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (0-1) R
Sampled: 12/10/2012 12:50

Sample ID: 12L0189-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1221 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1232 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1242 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1248 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1254 [2]	3.5	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1260 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1262 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB
Aroclor-1268 [1]	ND	0.61	mg/Kg dry	20		SW-846 8082A	12/12/12	12/13/12 20:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.9	30-150		12/13/12 20:40
Decachlorobiphenyl [2]	95.4	30-150		12/13/12 20:40
Tetrachloro-m-xylene [1]	99.1	30-150		12/13/12 20:40
Tetrachloro-m-xylene [2]	105	30-150		12/13/12 20:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (0-1) R | Sampled: 12/10/2012 12:50

Sample ID: 12L0189-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
C19-C36 Aliphatics	31	16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Unadjusted C11-C22 Aromatics	29	16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
C11-C22 Aromatics	29	16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Acenaphthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Acenaphthylene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Benzo(a)anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Benzo(a)pyrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Benzo(b)fluoranthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Benzo(g,h,i)perylene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Benzo(k)fluoranthene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Chrysene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Dibenz(a,h)anthracene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Fluoranthene	0.20	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Fluorene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Indeno(1,2,3-cd)pyrene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
2-Methylnaphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Naphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Phenanthrene	0.16	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS
Pyrene	0.21	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 13:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.8	40-140		12/12/12 13:32
o-Terphenyl (OTP)	56.9	40-140		12/12/12 13:32
2-Bromonaphthalene	76.1	40-140		12/12/12 13:32
2-Fluorobiphenyl	87.2	40-140		12/12/12 13:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (0-1) R | Sampled: 12/10/2012 12:50

Sample ID: 12L0189-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Antimony	ND	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Arsenic	11	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Barium	150	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Beryllium	ND	0.38	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Cadmium	0.85	0.38	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:16	OP
Calcium	2400	12	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Chromium	56	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Cobalt	21	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:16	OP
Copper	66	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Iron	41000	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Lead	89	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Magnesium	5900	12	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Manganese	640	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Mercury	0.24	0.039	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:41	SAJ
Nickel	47	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Potassium	2400	150	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Selenium	ND	7.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Silver	ND	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Sodium	ND	150	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Thallium	ND	3.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:16	OP
Vanadium	47	1.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP
Zinc	130	1.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:35	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (0-1) R
Sampled: 12/10/2012 12:50

Sample ID: 12L0189-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.93	0.69	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	63.2		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (1-2.5) R
Sampled: 12/10/2012 13:00

Sample ID: 12L0189-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1254 [2]	8.4	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1260 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/12/12	12/13/12 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/13/12 20:53
Decachlorobiphenyl [2]	*	30-150	S-01	12/13/12 20:53
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/13/12 20:53
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/13/12 20:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (1-2.5) R | Sampled: 12/10/2012 13:00

Sample ID: 12L0189-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
C19-C36 Aliphatics	180	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Unadjusted C11-C22 Aromatics	92	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
C11-C22 Aromatics	92	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Fluoranthene	0.23	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS
Pyrene	0.18	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.6	40-140		12/12/12 15:15
o-Terphenyl (OTP)	61.6	40-140		12/12/12 15:15
2-Bromonaphthalene	61.2	40-140		12/12/12 15:15
2-Fluorobiphenyl	73.5	40-140		12/12/12 15:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (1-2.5) R | Sampled: 12/10/2012 13:00

Sample ID: 12L0189-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Arsenic	7.1	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Barium	160	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Cadmium	1.1	0.29	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:21	OP
Calcium	2300	8.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Chromium	69	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Cobalt	13	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:21	OP
Copper	94	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Iron	67000	29	mg/Kg dry	10		SW-846 6010C	12/11/12	12/13/12 12:02	OP
Lead	130	0.86	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Magnesium	6100	8.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Manganese	510	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Mercury	0.27	0.029	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:50	SAJ
Nickel	45	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Potassium	3500	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Silver	0.72	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Sodium	ND	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:21	OP
Vanadium	51	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP
Zinc	210	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:40	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-7 (1-2.5) R
Sampled: 12/10/2012 13:00

Sample ID: 12L0189-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.4	0.54	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	85.0		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-8 (0-1) R
Sampled: 12/10/2012 13:15

Sample ID: 12L0189-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	72.5	30-150		12/13/12 15:31
Decachlorobiphenyl [2]	75.3	30-150		12/13/12 15:31
Tetrachloro-m-xylene [1]	78.7	30-150		12/13/12 15:31
Tetrachloro-m-xylene [2]	82.5	30-150		12/13/12 15:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-8 (0-1) R | Sampled: 12/10/2012 13:15

Sample ID: 12L0189-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/13/12 9:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.9	40-140		12/13/12 9:49
o-Terphenyl (OTP)	63.7	40-140		12/13/12 9:49
2-Bromonaphthalene	70.3	40-140		12/13/12 9:49
2-Fluorobiphenyl	77.4	40-140		12/13/12 9:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-8 (0-1) R | Sampled: 12/10/2012 13:15

Sample ID: 12L0189-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	27000	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Barium	250	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 11:57	OP
Cadmium	0.40	0.29	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:25	OP
Calcium	2000	8.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Chromium	100	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Cobalt	20	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:25	OP
Copper	14	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Iron	30000	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Lead	9.5	0.86	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Magnesium	15000	8.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Manganese	470	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:52	SAJ
Nickel	55	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Potassium	14000	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Sodium	180	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:25	OP
Vanadium	83	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP
Zinc	62	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:44	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-8 (0-1) R
Sampled: 12/10/2012 13:15

Sample ID: 12L0189-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.53	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	85.1		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-9 (0-1)
Sampled: 12/4/2012 14:55

Sample ID: 12L0189-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/7/12	12/10/12 21:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.1	30-150		12/10/12 21:13
Decachlorobiphenyl [2]	83.8	30-150		12/10/12 21:13
Tetrachloro-m-xylene [1]	79.2	30-150		12/10/12 21:13
Tetrachloro-m-xylene [2]	77.7	30-150		12/10/12 21:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-9 (0-1) | Sampled: 12/4/2012 14:55

Sample ID: 12L0189-21

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
C19-C36 Aliphatics	ND	30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Unadjusted C11-C22 Aromatics	36	30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
C11-C22 Aromatics	36	30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Acenaphthene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Acenaphthylene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Anthracene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Benzo(a)anthracene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Benzo(a)pyrene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Benzo(b)fluoranthene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Benzo(g,h,i)perylene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Benzo(k)fluoranthene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Chrysene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Dibenz(a,h)anthracene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Fluoranthene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Fluorene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Indeno(1,2,3-cd)pyrene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
2-Methylnaphthalene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Naphthalene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Phenanthrene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS
Pyrene	ND	0.30	mg/Kg dry	1		MADEP-EPH-04-1.1	12/12/12	12/13/12 11:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.5	40-140		12/13/12 11:13
o-Terphenyl (OTP)	59.5	40-140		12/13/12 11:13
2-Bromonaphthalene	69.3	40-140		12/13/12 11:13
2-Fluorobiphenyl	74.9	40-140		12/13/12 11:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-9 (0-1) | Sampled: 12/4/2012 14:55

Sample ID: 12L0189-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	22000	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Arsenic	21	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Barium	95	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Beryllium	ND	1.7	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/11/12 16:49	OP
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Calcium	1500	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Chromium	78	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Cobalt	11	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Copper	18	0.70	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:13	OP
Iron	21000	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:51	OP
Lead	30	1.0	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:51	OP
Magnesium	7900	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Manganese	190	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Mercury	0.12	0.036	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:31	SAJ
Nickel	42	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:51	OP
Potassium	2800	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Selenium	ND	7.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Silver	ND	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Vanadium	52	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP
Zinc	72	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:13	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-9 (0-1)
Sampled: 12/4/2012 14:55

Sample ID: 12L0189-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.68	mg/Kg dry	1		SW-846 9014	12/15/12	12/15/12 14:15	VAK
% Solids	67.6		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-10 (0-1) R
Sampled: 12/10/2012 13:30

Sample ID: 12L0189-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.8	30-150		12/13/12 15:44
Decachlorobiphenyl [2]	84.0	30-150		12/13/12 15:44
Tetrachloro-m-xylene [1]	94.5	30-150		12/13/12 15:44
Tetrachloro-m-xylene [2]	96.6	30-150		12/13/12 15:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-10 (0-1) R
Sampled: 12/10/2012 13:30
Sample ID: 12L0189-23
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
C19-C36 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Unadjusted C11-C22 Aromatics	22	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
C11-C22 Aromatics	22	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Phenanthrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 15:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	57.3	40-140		12/12/12 15:57
o-Terphenyl (OTP)	50.2	40-140		12/12/12 15:57
2-Bromonaphthalene	68.2	40-140		12/12/12 15:57
2-Fluorobiphenyl	77.7	40-140		12/12/12 15:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-10 (0-1) R | Sampled: 12/10/2012 13:30

Sample ID: 12L0189-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Antimony	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Arsenic	7.8	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Barium	67	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Cadmium	0.39	0.33	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:29	OP
Calcium	430	10	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Chromium	43	0.66	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Cobalt	9.1	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:29	OP
Copper	9.5	0.66	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Iron	18000	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Lead	17	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Magnesium	4500	10	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Manganese	130	0.66	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Mercury	0.10	0.033	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:54	SAJ
Nickel	24	0.66	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Potassium	1700	130	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Selenium	ND	6.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Silver	ND	0.66	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 14:29	OP
Vanadium	45	1.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP
Zinc	44	1.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:48	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-10 (0-1) R
Sampled: 12/10/2012 13:30

Sample ID: 12L0189-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.65	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	74.5		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-11 (0-1)
Sampled: 12/5/2012 08:50

Sample ID: 12L0189-25

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 15:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	45.5	30-150		12/13/12 15:57
Decachlorobiphenyl [2]	47.3	30-150		12/13/12 15:57
Tetrachloro-m-xylene [1]	56.2	30-150		12/13/12 15:57
Tetrachloro-m-xylene [2]	58.1	30-150		12/13/12 15:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-11 (0-1)
Sampled: 12/5/2012 08:50
Sample ID: 12L0189-25
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
C19-C36 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Unadjusted C11-C22 Aromatics	44	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
C11-C22 Aromatics	44	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Benzo(a)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Benzo(a)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Benzo(b)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Benzo(g,h,i)perylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Chrysene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Phenanthrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS
Pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	51.7	40-140		12/11/12 23:11
o-Terphenyl (OTP)	41.7	40-140		12/11/12 23:11
2-Bromonaphthalene	60.6	40-140		12/11/12 23:11
2-Fluorobiphenyl	75.7	40-140		12/11/12 23:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-11 (0-1) | Sampled: 12/5/2012 08:50

Sample ID: 12L0189-25

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Antimony	ND	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Barium	64	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Beryllium	ND	1.8	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/11/12 16:55	OP
Cadmium	0.36	0.36	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Calcium	870	11	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Chromium	42	0.71	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Cobalt	6.8	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Copper	7.8	0.71	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:18	OP
Iron	21000	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:56	OP
Lead	51	1.1	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 13:56	OP
Magnesium	3600	11	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Manganese	110	0.71	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Mercury	0.087	0.035	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:33	SAJ
Nickel	21	0.71	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 13:56	OP
Potassium	1000	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Selenium	ND	7.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Silver	ND	0.71	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Thallium	ND	3.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Vanadium	70	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP
Zinc	81	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:18	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-11 (0-1)
Sampled: 12/5/2012 08:50

Sample ID: 12L0189-25

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.51	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	69.7		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-12 (0-1)
Sampled: 12/5/2012 09:20

Sample ID: 12L0189-27

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	74.2	30-150		12/13/12 16:10
Decachlorobiphenyl [2]	77.8	30-150		12/13/12 16:10
Tetrachloro-m-xylene [1]	80.0	30-150		12/13/12 16:10
Tetrachloro-m-xylene [2]	75.5	30-150		12/13/12 16:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-12 (0-1)
Sampled: 12/5/2012 09:20
Sample ID: 12L0189-27
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Unadjusted C11-C22 Aromatics	23	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
C11-C22 Aromatics	20	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Acenaphthene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Anthracene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Benzo(a)anthracene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Benzo(b)fluoranthene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Benzo(g,h,i)perylene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Chrysene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Fluoranthene	0.54	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Fluorene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Naphthalene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Phenanthrene	0.74	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS
Pyrene	0.55	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.7	40-140		12/11/12 23:32
o-Terphenyl (OTP)	57.4	40-140		12/11/12 23:32
2-Bromonaphthalene	67.3	40-140		12/11/12 23:32
2-Fluorobiphenyl	78.5	40-140		12/11/12 23:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-12 (0-1) | Sampled: 12/5/2012 09:20

Sample ID: 12L0189-27

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	25000	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Arsenic	24	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Barium	210	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Beryllium	ND	2.9	mg/Kg dry	10	DL-04	SW-846 6010C	12/7/12	12/12/12 16:20	OP
Cadmium	1.2	0.29	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Calcium	2200	8.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Chromium	98	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Cobalt	15	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Copper	56	0.57	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:23	OP
Iron	55000	29	mg/Kg dry	10		SW-846 6010C	12/7/12	12/12/12 16:20	OP
Lead	140	0.86	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:01	OP
Magnesium	11000	8.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Manganese	370	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Mercury	0.056	0.029	mg/Kg dry	1		SW-846 7471B	12/8/12	12/10/12 12:34	SAJ
Nickel	46	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:01	OP
Potassium	7500	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Sodium	220	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Vanadium	71	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP
Zinc	320	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:23	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-12 (0-1)
Sampled: 12/5/2012 09:20

Sample ID: 12L0189-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.47	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	86.3		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (0-1)
Sampled: 12/5/2012 10:00

Sample ID: 12L0189-29

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.1	30-150		12/13/12 16:23
Decachlorobiphenyl [2]	92.4	30-150		12/13/12 16:23
Tetrachloro-m-xylene [1]	88.6	30-150		12/13/12 16:23
Tetrachloro-m-xylene [2]	88.5	30-150		12/13/12 16:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-13 (0-1)
Sampled: 12/5/2012 10:00
Sample ID: 12L0189-29
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/14/12 11:22	SCS
C19-C36 Aliphatics	1400	280	mg/Kg dry	20		MADEP-EPH-04-1.1	12/7/12	12/14/12 11:22	SCS
Unadjusted C11-C22 Aromatics	530	69	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/14/12 11:22	SCS
C11-C22 Aromatics	520	69	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/14/12 11:22	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Benzo(a)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Benzo(a)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Benzo(b)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Benzo(g,h,i)perylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Chrysene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Fluoranthene	0.47	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Phenanthrene	0.19	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS
Pyrene	0.41	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 13:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	49.2	40-140		12/12/12 13:52
o-Terphenyl (OTP)	45.0	40-140		12/12/12 13:52
2-Bromonaphthalene	55.3	40-140		12/12/12 13:52
2-Fluorobiphenyl	67.7	40-140		12/12/12 13:52

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (0-1) | Sampled: 12/5/2012 10:00

Sample ID: 12L0189-29

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9600	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Antimony	4.8	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Arsenic	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Barium	310	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Cadmium	1.3	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Calcium	2500	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Chromium	50	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Cobalt	7.5	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Copper	260	0.67	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:27	OP
Iron	31000	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:05	OP
Lead	560	1.0	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:05	OP
Magnesium	3400	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Manganese	300	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Mercury	2.8	0.34	mg/Kg dry	10		SW-846 7471B	12/7/12	12/10/12 14:30	SAJ
Nickel	19	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:05	OP
Potassium	1500	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Vanadium	30	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP
Zinc	500	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (0-1)
Sampled: 12/5/2012 10:00

Sample ID: 12L0189-29

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	9.2	0.59	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	72.2		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-1
Sampled: 12/5/2012 00:00

Sample ID: 12L0189-30

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.2	30-150		12/13/12 16:36
Decachlorobiphenyl [2]	84.8	30-150		12/13/12 16:36
Tetrachloro-m-xylene [1]	91.5	30-150		12/13/12 16:36
Tetrachloro-m-xylene [2]	90.2	30-150		12/13/12 16:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: Dup-1
Sampled: 12/5/2012 00:00
Sample ID: 12L0189-30
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
C19-C36 Aliphatics	100	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Unadjusted C11-C22 Aromatics	92	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
C11-C22 Aromatics	84	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Acenaphthene	0.15	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Acenaphthylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Anthracene	0.26	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Benzo(a)anthracene	0.59	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Benzo(a)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Benzo(b)fluoranthene	0.72	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Benzo(g,h,i)perylene	0.59	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Benzo(k)fluoranthene	0.24	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Chrysene	0.83	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Dibenz(a,h)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Fluoranthene	1.2	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Fluorene	0.24	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Indeno(1,2,3-cd)pyrene	0.32	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
2-Methylnaphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Naphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Phenanthrene	1.3	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS
Pyrene	1.6	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 23:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	45.9	40-140		12/11/12 23:52
o-Terphenyl (OTP)	40.8	40-140		12/11/12 23:52
2-Bromonaphthalene	68.7	40-140		12/11/12 23:52
2-Fluorobiphenyl	79.0	40-140		12/11/12 23:52

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-1 | Sampled: 12/5/2012 00:00

Sample ID: 12L0189-30

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Arsenic	4.0	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Barium	360	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Beryllium	ND	0.35	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Cadmium	1.4	0.35	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Calcium	2600	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Chromium	62	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Cobalt	9.1	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Copper	360	0.70	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:31	OP
Iron	24000	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:10	OP
Lead	710	1.0	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:10	OP
Magnesium	3700	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Manganese	360	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Mercury	2.1	0.18	mg/Kg dry	5		SW-846 7471B	12/7/12	12/10/12 14:31	SAJ
Nickel	22	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:10	OP
Potassium	1700	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Selenium	ND	7.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Silver	ND	0.70	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Vanadium	35	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP
Zinc	600	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:31	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-1
Sampled: 12/5/2012 00:00

Sample ID: 12L0189-30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	7.9	0.51	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	66.6		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (1-3)
Sampled: 12/5/2012 10:05

Sample ID: 12L0189-31

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 19:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.3	30-150		12/11/12 19:59
Decachlorobiphenyl [2]	96.2	30-150		12/11/12 19:59
Tetrachloro-m-xylene [1]	77.4	30-150		12/11/12 19:59
Tetrachloro-m-xylene [2]	79.1	30-150		12/11/12 19:59

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-13 (1-3)
Sampled: 12/5/2012 10:05
Sample ID: 12L0189-31
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	75.7	40-140		12/12/12 20:05
o-Terphenyl (OTP)	63.2	40-140		12/12/12 20:05
2-Bromonaphthalene	75.3	40-140		12/12/12 20:05
2-Fluorobiphenyl	84.0	40-140		12/12/12 20:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (1-3) | Sampled: 12/5/2012 10:05

Sample ID: 12L0189-31

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	22000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Arsenic	9.6	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Barium	260	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:19	OP
Cadmium	0.34	0.26	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Calcium	1600	7.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Chromium	120	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Cobalt	18	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Copper	12	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Iron	25000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Lead	2.6	0.78	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Magnesium	14000	7.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Manganese	680	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:07	SAJ
Nickel	58	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Potassium	13000	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Sodium	130	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:22	OP
Vanadium	71	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP
Zinc	52	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:13	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-13 (1-3)
Sampled: 12/5/2012 10:05

Sample ID: 12L0189-31

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.43	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	94.3		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (0-1)
Sampled: 12/5/2012 10:35

Sample ID: 12L0189-32

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.0	30-150		12/13/12 17:14
Decachlorobiphenyl [2]	85.9	30-150		12/13/12 17:14
Tetrachloro-m-xylene [1]	91.1	30-150		12/13/12 17:14
Tetrachloro-m-xylene [2]	91.9	30-150		12/13/12 17:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-14 (0-1)
Sampled: 12/5/2012 10:35
Sample ID: 12L0189-32
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
C19-C36 Aliphatics	57	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Unadjusted C11-C22 Aromatics	58	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
C11-C22 Aromatics	52	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Anthracene	0.27	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Benzo(a)anthracene	0.50	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Benzo(b)fluoranthene	0.66	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Benzo(k)fluoranthene	0.22	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Chrysene	0.63	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Fluoranthene	1.2	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Fluorene	0.17	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Indeno(1,2,3-cd)pyrene	0.31	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Phenanthrene	1.2	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS
Pyrene	1.1	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.2	40-140		12/12/12 1:56
o-Terphenyl (OTP)	53.4	40-140		12/12/12 1:56
2-Bromonaphthalene	62.4	40-140		12/12/12 1:56
2-Fluorobiphenyl	77.9	40-140		12/12/12 1:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (0-1) | Sampled: 12/5/2012 10:35

Sample ID: 12L0189-32

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2300	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Antimony	65	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Arsenic	9.2	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Barium	570	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Cadmium	1.8	0.32	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Calcium	2600	9.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Chromium	21	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Cobalt	5.1	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Copper	900	0.64	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 21:56	OP
Iron	12000	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:15	OP
Lead	4300	0.96	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:15	OP
Magnesium	760	9.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Manganese	460	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Mercury	4.8	0.31	mg/Kg dry	10		SW-846 7471B	12/7/12	12/10/12 14:33	SAJ
Nickel	15	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:15	OP
Potassium	200	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Silver	2.6	0.64	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Vanadium	15	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP
Zinc	610	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 21:56	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (0-1)
Sampled: 12/5/2012 10:35

Sample ID: 12L0189-32

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	7.0	0.45	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	77.8		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (1.5-5.5)
Sampled: 12/5/2012 10:40

Sample ID: 12L0189-33

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.8	30-150		12/13/12 17:27
Decachlorobiphenyl [2]	82.0	30-150		12/13/12 17:27
Tetrachloro-m-xylene [1]	89.8	30-150		12/13/12 17:27
Tetrachloro-m-xylene [2]	91.2	30-150		12/13/12 17:27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-14 (1.5-5.5)
Sampled: 12/5/2012 10:40
Sample ID: 12L0189-33
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
C19-C36 Aliphatics	160	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Unadjusted C11-C22 Aromatics	95	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
C11-C22 Aromatics	92	14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Acenaphthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Acenaphthylene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Benzo(a)anthracene	0.22	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Benzo(a)pyrene	0.49	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Benzo(b)fluoranthene	0.57	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Benzo(g,h,i)perylene	0.43	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Chrysene	0.40	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Fluoranthene	0.34	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Fluorene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Indeno(1,2,3-cd)pyrene	0.16	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Naphthalene	ND	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Phenanthrene	0.44	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS
Pyrene	0.32	0.14	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.0	40-140		12/12/12 0:13
o-Terphenyl (OTP)	57.7	40-140		12/12/12 0:13
2-Bromonaphthalene	68.4	40-140		12/12/12 0:13
2-Fluorobiphenyl	80.8	40-140		12/12/12 0:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (1.5-5.5) | Sampled: 12/5/2012 10:40

Sample ID: 12L0189-33

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2400	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Antimony	17	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Arsenic	4.2	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Barium	390	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Cadmium	0.98	0.34	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Calcium	3100	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Chromium	120	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Cobalt	5.8	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Copper	3200	0.68	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:01	OP
Iron	14000	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:20	OP
Lead	3400	1.0	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:20	OP
Magnesium	510	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Manganese	140	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Mercury	3.2	0.34	mg/Kg dry	10		SW-846 7471B	12/7/12	12/10/12 14:39	SAJ
Nickel	12	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:20	OP
Potassium	190	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Selenium	ND	6.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Silver	2.8	0.68	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Sodium	ND	140	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Vanadium	10	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP
Zinc	450	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:01	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (1.5-5.5)
Sampled: 12/5/2012 10:40

Sample ID: 12L0189-33

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	6.4	0.54	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	72.8		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (6-7)
Sampled: 12/5/2012 10:45

Sample ID: 12L0189-34

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:11	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.3	30-150		12/11/12 20:11
Decachlorobiphenyl [2]	106	30-150		12/11/12 20:11
Tetrachloro-m-xylene [1]	89.7	30-150		12/11/12 20:11
Tetrachloro-m-xylene [2]	92.5	30-150		12/11/12 20:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-14 (6-7)
Sampled: 12/5/2012 10:45
Sample ID: 12L0189-34
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:26	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.9	40-140		12/12/12 20:26
o-Terphenyl (OTP)	60.9	40-140		12/12/12 20:26
2-Bromonaphthalene	78.8	40-140		12/12/12 20:26
2-Fluorobiphenyl	87.9	40-140		12/12/12 20:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (6-7) | Sampled: 12/5/2012 10:45

Sample ID: 12L0189-34

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	26000	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Arsenic	4.9	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Barium	240	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:23	OP
Cadmium	0.34	0.27	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Calcium	1700	8.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Chromium	94	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Cobalt	19	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Copper	12	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Iron	27000	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Lead	2.8	0.81	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Magnesium	14000	8.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Manganese	410	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Mercury	0.035	0.027	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:09	SAJ
Nickel	56	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Potassium	11000	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Sodium	190	110	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:26	OP
Vanadium	73	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP
Zinc	67	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:17	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-14 (6-7)
Sampled: 12/5/2012 10:45

Sample ID: 12L0189-34

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.44	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	92.3		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (0-1) | Sampled: 12/5/2012 11:45

Sample ID: 12L0189-35

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.9	30-150		12/13/12 17:40
Decachlorobiphenyl [2]	86.5	30-150		12/13/12 17:40
Tetrachloro-m-xylene [1]	91.7	30-150		12/13/12 17:40
Tetrachloro-m-xylene [2]	91.9	30-150		12/13/12 17:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-15 (0-1)
Sampled: 12/5/2012 11:45
Sample ID: 12L0189-35
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
C19-C36 Aliphatics	52	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Unadjusted C11-C22 Aromatics	56	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
C11-C22 Aromatics	56	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Benzo(a)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Benzo(a)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Benzo(b)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Benzo(g,h,i)perylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Benzo(k)fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Chrysene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Dibenz(a,h)anthracene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Fluoranthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Fluorene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Indeno(1,2,3-cd)pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
2-Methylnaphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Naphthalene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Phenanthrene	0.14	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS
Pyrene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:34	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	47.4	40-140		12/12/12 0:34
o-Terphenyl (OTP)	44.4	40-140		12/12/12 0:34
2-Bromonaphthalene	66.5	40-140		12/12/12 0:34
2-Fluorobiphenyl	79.6	40-140		12/12/12 0:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (0-1)
Sampled: 12/5/2012 11:45

Sample ID: 12L0189-35

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6200	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Antimony	4.8	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Arsenic	20	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Barium	610	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Beryllium	1.0	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Cadmium	0.76	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Calcium	4300	9.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Chromium	67	0.66	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Cobalt	9.3	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Copper	170	0.66	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:06	OP
Iron	17000	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:24	OP
Lead	350	0.98	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:24	OP
Magnesium	1200	9.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Manganese	170	0.66	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Mercury	1.1	0.16	mg/Kg dry	5		SW-846 7471B	12/7/12	12/10/12 14:41	SAJ
Nickel	19	0.66	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:24	OP
Potassium	350	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Selenium	ND	6.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Silver	ND	0.66	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Sodium	320	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Vanadium	37	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP
Zinc	300	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:06	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (0-1)
Sampled: 12/5/2012 11:45

Sample ID: 12L0189-35

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	6.4	0.57	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	75.7		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (1-1.5)
Sampled: 12/5/2012 11:50

Sample ID: 12L0189-36

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.0	30-150		12/13/12 17:53
Decachlorobiphenyl [2]	86.2	30-150		12/13/12 17:53
Tetrachloro-m-xylene [1]	86.3	30-150		12/13/12 17:53
Tetrachloro-m-xylene [2]	86.6	30-150		12/13/12 17:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (1-1.5) | Sampled: 12/5/2012 11:50

Sample ID: 12L0189-36

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Unadjusted C11-C22 Aromatics	22	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
C11-C22 Aromatics	22	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 0:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.6	40-140		12/12/12 0:54
o-Terphenyl (OTP)	58.8	40-140		12/12/12 0:54
2-Bromonaphthalene	72.5	40-140		12/12/12 0:54
2-Fluorobiphenyl	83.0	40-140		12/12/12 0:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (1-1.5) | Sampled: 12/5/2012 11:50

Sample ID: 12L0189-36

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2800	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Arsenic	4.6	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Barium	160	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Calcium	2200	8.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Chromium	5.8	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Cobalt	5.6	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Copper	23	0.57	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:11	OP
Iron	6900	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:51	OP
Lead	32	0.85	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:51	OP
Magnesium	330	8.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Manganese	35	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Mercury	0.070	0.028	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:31	SAJ
Nickel	11	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:51	OP
Potassium	230	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Sodium	ND	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Vanadium	14	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP
Zinc	32	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:11	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (1-1.5)
Sampled: 12/5/2012 11:50

Sample ID: 12L0189-36

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.42	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	87.0		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (2-6)
Sampled: 12/5/2012 11:55

Sample ID: 12L0189-37

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:24	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		12/11/12 20:24
Decachlorobiphenyl [2]	111	30-150		12/11/12 20:24
Tetrachloro-m-xylene [1]	89.6	30-150		12/11/12 20:24
Tetrachloro-m-xylene [2]	92.0	30-150		12/11/12 20:24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (2-6)
Sampled: 12/5/2012 11:55

Sample ID: 12L0189-37

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 20:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	74.3	40-140		12/12/12 20:46
o-Terphenyl (OTP)	65.4	40-140		12/12/12 20:46
2-Bromonaphthalene	77.4	40-140		12/12/12 20:46
2-Fluorobiphenyl	84.6	40-140		12/12/12 20:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (2-6) | Sampled: 12/5/2012 11:55

Sample ID: 12L0189-37

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	21000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Barium	190	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:28	OP
Cadmium	0.28	0.26	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Calcium	1800	7.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Chromium	120	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Cobalt	16	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Copper	9.5	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Iron	24000	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Lead	4.3	0.77	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Magnesium	12000	7.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Manganese	390	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:11	SAJ
Nickel	51	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Potassium	7900	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Sodium	130	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:29	OP
Vanadium	65	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP
Zinc	45	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:21	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-15 (2-6)
Sampled: 12/5/2012 11:55

Sample ID: 12L0189-37

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.51	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	95.7		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

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Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (0-1) | Sampled: 12/5/2012 12:40

Sample ID: 12L0189-38

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.3	30-150		12/13/12 18:06
Decachlorobiphenyl [2]	85.9	30-150		12/13/12 18:06
Tetrachloro-m-xylene [1]	89.9	30-150		12/13/12 18:06
Tetrachloro-m-xylene [2]	90.2	30-150		12/13/12 18:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (0-1) | Sampled: 12/5/2012 12:40

Sample ID: 12L0189-38

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
C19-C36 Aliphatics	18	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Unadjusted C11-C22 Aromatics	36	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
C11-C22 Aromatics	35	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Naphthalene	0.22	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Phenanthrene	0.21	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	51.1	40-140		12/12/12 1:15
o-Terphenyl (OTP)	44.4	40-140		12/12/12 1:15
2-Bromonaphthalene	69.8	40-140		12/12/12 1:15
2-Fluorobiphenyl	80.5	40-140		12/12/12 1:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (0-1) | Sampled: 12/5/2012 12:40

Sample ID: 12L0189-38

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4900	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Antimony	5.3	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Arsenic	3.8	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Barium	73	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Cadmium	0.31	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Calcium	2500	9.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Chromium	19	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Cobalt	5.6	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Copper	97	0.60	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:16	OP
Iron	17000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:56	OP
Lead	170	0.90	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 14:56	OP
Magnesium	840	9.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Manganese	93	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Mercury	0.42	0.030	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:33	SAJ
Nickel	15	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 14:56	OP
Potassium	370	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Vanadium	38	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP
Zinc	130	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:16	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (0-1)
Sampled: 12/5/2012 12:40

Sample ID: 12L0189-38

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.7	0.46	mg/Kg dry	1		SW-846 9014	12/11/12	12/11/12 9:45	VAK
% Solids	82.3		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-2
Sampled: 12/5/2012 00:00

Sample ID: 12L0189-39

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.7	30-150		12/13/12 18:19
Decachlorobiphenyl [2]	84.4	30-150		12/13/12 18:19
Tetrachloro-m-xylene [1]	90.0	30-150		12/13/12 18:19
Tetrachloro-m-xylene [2]	89.6	30-150		12/13/12 18:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: Dup-2
Sampled: 12/5/2012 00:00
Sample ID: 12L0189-39
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
C19-C36 Aliphatics	30	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Unadjusted C11-C22 Aromatics	35	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
C11-C22 Aromatics	35	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/12/12 1:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.7	40-140		12/12/12 1:35
o-Terphenyl (OTP)	60.5	40-140		12/12/12 1:35
2-Bromonaphthalene	71.8	40-140		12/12/12 1:35
2-Fluorobiphenyl	82.4	40-140		12/12/12 1:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-2 | Sampled: 12/5/2012 00:00

Sample ID: 12L0189-39

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4100	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Antimony	4.1	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Barium	78	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Calcium	2300	8.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Chromium	15	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Cobalt	4.8	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Copper	91	0.59	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:20	OP
Iron	14000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:01	OP
Lead	160	0.89	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 15:01	OP
Magnesium	750	8.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Manganese	65	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Mercury	0.35	0.031	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:35	SAJ
Nickel	14	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:01	OP
Potassium	420	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Vanadium	32	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP
Zinc	98	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:20	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: Dup-2
Sampled: 12/5/2012 00:00

Sample ID: 12L0189-39

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.1	0.60	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	81.0		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (1-2.5)
Sampled: 12/5/2012 12:45

Sample ID: 12L0189-40

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:37	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.5	30-150		12/11/12 20:37
Decachlorobiphenyl [2]	101	30-150		12/11/12 20:37
Tetrachloro-m-xylene [1]	80.3	30-150		12/11/12 20:37
Tetrachloro-m-xylene [2]	82.1	30-150		12/11/12 20:37

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-16 (1-2.5)
Sampled: 12/5/2012 12:45
Sample ID: 12L0189-40
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	81.6	40-140		12/12/12 21:07
o-Terphenyl (OTP)	67.1	40-140		12/12/12 21:07
2-Bromonaphthalene	79.9	40-140		12/12/12 21:07
2-Fluorobiphenyl	89.0	40-140		12/12/12 21:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-16 (1-2.5)
Sampled: 12/5/2012 12:45
Sample ID: 12L0189-40
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	24000	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Barium	230	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Beryllium	ND	1.2	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:33	OP
Cadmium	0.28	0.25	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Calcium	1600	7.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Chromium	140	0.49	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Cobalt	17	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Copper	8.5	0.49	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Iron	25000	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Lead	3.0	0.74	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Magnesium	14000	7.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Manganese	460	0.49	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:12	SAJ
Nickel	54	0.49	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Potassium	13000	98	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Sodium	190	98	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:33	OP
Vanadium	69	0.98	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP
Zinc	68	0.98	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:25	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-16 (1-2.5)
Sampled: 12/5/2012 12:45

Sample ID: 12L0189-40

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.39	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	97.9		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (0-1)
Sampled: 12/5/2012 13:45

Sample ID: 12L0189-41

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1248 [2]	0.19	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1254 [2]	0.31	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.7	30-150		12/13/12 18:32
Decachlorobiphenyl [2]	85.0	30-150		12/13/12 18:32
Tetrachloro-m-xylene [1]	91.9	30-150		12/13/12 18:32
Tetrachloro-m-xylene [2]	92.1	30-150		12/13/12 18:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (0-1) | Sampled: 12/5/2012 13:45

Sample ID: 12L0189-41

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	25	mg/Kg dry	2	MS-09	MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
C19-C36 Aliphatics	81	25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Unadjusted C11-C22 Aromatics	110	25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
C11-C22 Aromatics	100	25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Acenaphthene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Acenaphthylene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Anthracene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Benzo(a)anthracene	0.52	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Benzo(a)pyrene	0.51	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Benzo(b)fluoranthene	0.80	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Benzo(g,h,i)perylene	0.45	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Benzo(k)fluoranthene	0.30	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Chrysene	0.66	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Dibenz(a,h)anthracene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Fluoranthene	0.89	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Fluorene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Indeno(1,2,3-cd)pyrene	0.40	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
2-Methylnaphthalene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Naphthalene	ND	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Phenanthrene	0.38	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS
Pyrene	0.94	0.25	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	48.3	40-140		12/11/12 1:17
o-Terphenyl (OTP)	48.4	40-140		12/11/12 1:17
2-Bromonaphthalene	77.7	40-140		12/11/12 1:17
2-Fluorobiphenyl	94.3	40-140		12/11/12 1:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (0-1) | Sampled: 12/5/2012 13:45

Sample ID: 12L0189-41

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Barium	160	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Cadmium	0.52	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Calcium	3200	8.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Chromium	71	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Cobalt	9.1	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Copper	120	0.59	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:25	OP
Iron	37000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:06	OP
Lead	210	0.89	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 15:06	OP
Magnesium	4200	8.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Manganese	1100	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Mercury	0.33	0.030	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:36	SAJ
Nickel	37	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:06	OP
Potassium	2700	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Vanadium	40	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP
Zinc	140	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:25	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (0-1)
Sampled: 12/5/2012 13:45

Sample ID: 12L0189-41

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	2.5	0.43	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	81.5		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (1-5.5)
Sampled: 12/5/2012 13:50

Sample ID: 12L0189-42

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.6	30-150		12/13/12 18:44
Decachlorobiphenyl [2]	84.1	30-150		12/13/12 18:44
Tetrachloro-m-xylene [1]	90.1	30-150		12/13/12 18:44
Tetrachloro-m-xylene [2]	90.3	30-150		12/13/12 18:44

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (1-5.5) | Sampled: 12/5/2012 13:50

Sample ID: 12L0189-42

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
C19-C36 Aliphatics	76	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Unadjusted C11-C22 Aromatics	85	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
C11-C22 Aromatics	75	13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Acenaphthene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Acenaphthylene	ND	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Anthracene	0.26	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Benzo(a)anthracene	0.74	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Benzo(a)pyrene	0.74	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Benzo(b)fluoranthene	1.1	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Benzo(g,h,i)perylene	0.46	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Benzo(k)fluoranthene	0.37	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Chrysene	0.86	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Dibenz(a,h)anthracene	0.22	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Fluoranthene	1.5	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Fluorene	0.13	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Indeno(1,2,3-cd)pyrene	0.67	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
2-Methylnaphthalene	0.13	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Naphthalene	0.18	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Phenanthrene	0.90	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS
Pyrene	1.4	0.13	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	55.4	40-140		12/11/12 1:38
o-Terphenyl (OTP)	62.7	40-140		12/11/12 1:38
2-Bromonaphthalene	61.4	40-140		12/11/12 1:38
2-Fluorobiphenyl	83.9	40-140		12/11/12 1:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (1-5.5) | Sampled: 12/5/2012 13:50

Sample ID: 12L0189-42

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3500	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Antimony	5.8	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Arsenic	6.4	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Barium	120	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Cadmium	0.62	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Calcium	7500	9.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Chromium	17	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Cobalt	5.4	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Copper	110	0.61	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 22:30	OP
Iron	21000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:10	OP
Lead	750	0.91	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 15:10	OP
Magnesium	2000	9.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Manganese	170	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Mercury	0.46	0.032	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:38	SAJ
Nickel	24	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 15:10	OP
Potassium	780	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Vanadium	21	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP
Zinc	150	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 22:30	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (1-5.5)
Sampled: 12/5/2012 13:50

Sample ID: 12L0189-42

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.9	0.61	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	76.6		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (10-12)
Sampled: 12/5/2012 13:55

Sample ID: 12L0189-43

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 20:50	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.1	30-150		12/11/12 20:50
Decachlorobiphenyl [2]	109	30-150		12/11/12 20:50
Tetrachloro-m-xylene [1]	90.3	30-150		12/11/12 20:50
Tetrachloro-m-xylene [2]	92.8	30-150		12/11/12 20:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-17 (10-12)
Sampled: 12/5/2012 13:55
Sample ID: 12L0189-43
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.6	40-140		12/12/12 21:28
o-Terphenyl (OTP)	55.0	40-140		12/12/12 21:28
2-Bromonaphthalene	71.8	40-140		12/12/12 21:28
2-Fluorobiphenyl	78.3	40-140		12/12/12 21:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (10-12) | Sampled: 12/5/2012 13:55

Sample ID: 12L0189-43

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Arsenic	13	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Barium	260	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Beryllium	ND	1.3	mg/Kg dry	5	DL-04	SW-846 6010C	12/11/12	12/13/12 9:38	OP
Cadmium	0.36	0.25	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Calcium	6900	7.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Chromium	100	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Cobalt	16	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Copper	7.1	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Iron	24000	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Lead	3.2	0.76	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Magnesium	13000	7.6	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Manganese	720	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Mercury	0.036	0.026	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:14	SAJ
Nickel	45	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Potassium	13000	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Sodium	200	100	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:37	OP
Vanadium	67	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP
Zinc	51	1.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:29	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-17 (10-12)
Sampled: 12/5/2012 13:55

Sample ID: 12L0189-43

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.6	0.42	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	96.0		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (0-1)
Sampled: 12/5/2012 14:45

Sample ID: 12L0189-44

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 18:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.3	30-150		12/13/12 18:57
Decachlorobiphenyl [2]	82.5	30-150		12/13/12 18:57
Tetrachloro-m-xylene [1]	85.6	30-150		12/13/12 18:57
Tetrachloro-m-xylene [2]	87.3	30-150		12/13/12 18:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-1 (0-1)
Sampled: 12/5/2012 14:45
Sample ID: 12L0189-44
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Unadjusted C11-C22 Aromatics	16	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
C11-C22 Aromatics	16	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 1:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.4	40-140		12/11/12 1:58
o-Terphenyl (OTP)	75.1	40-140		12/11/12 1:58
2-Bromonaphthalene	68.2	40-140		12/11/12 1:58
2-Fluorobiphenyl	86.1	40-140		12/11/12 1:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-1 (0-1)
Sampled: 12/5/2012 14:45
Sample ID: 12L0189-44
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	2.8	mg/Kg dry	1	MS-19	SW-846 6010C	12/7/12	12/10/12 19:50	OP
Antimony	ND	2.8	mg/Kg dry	1	MS-07	SW-846 6010C	12/7/12	12/10/12 19:50	OP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Barium	29	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Calcium	1600	8.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Chromium	13	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Cobalt	5.1	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Copper	7.5	0.55	mg/Kg dry	1	B-07, B	SW-846 6010C	12/7/12	12/10/12 19:50	OP
Iron	9800	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 11:42	OP
Lead	4.6	0.83	mg/Kg dry	1	M-10	SW-846 6010C	12/7/12	12/11/12 11:42	OP
Magnesium	3100	8.3	mg/Kg dry	1	MS-19	SW-846 6010C	12/7/12	12/10/12 19:50	OP
Manganese	150	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:40	SAJ
Nickel	12	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 11:42	OP
Potassium	1700	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Sodium	ND	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Vanadium	17	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP
Zinc	32	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 19:50	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (0-1)
Sampled: 12/5/2012 14:45

Sample ID: 12L0189-44

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.49	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	90.2		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (1.5-5.5)
Sampled: 12/5/2012 14:50

Sample ID: 12L0189-45

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.5	30-150		12/13/12 19:10
Decachlorobiphenyl [2]	87.3	30-150		12/13/12 19:10
Tetrachloro-m-xylene [1]	90.4	30-150		12/13/12 19:10
Tetrachloro-m-xylene [2]	89.5	30-150		12/13/12 19:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (1.5-5.5) | Sampled: 12/5/2012 14:50

Sample ID: 12L0189-45

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
C19-C36 Aliphatics	92	28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Unadjusted C11-C22 Aromatics	240	28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
C11-C22 Aromatics	200	28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Acenaphthene	ND	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Acenaphthylene	0.80	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Anthracene	0.74	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Benzo(a)anthracene	2.7	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Benzo(a)pyrene	3.8	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Benzo(b)fluoranthene	5.5	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Benzo(g,h,i)perylene	2.8	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Benzo(k)fluoranthene	2.1	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Chrysene	4.3	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Dibenz(a,h)anthracene	0.90	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Fluoranthene	7.4	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Fluorene	0.43	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Indeno(1,2,3-cd)pyrene	3.2	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
2-Methylnaphthalene	ND	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Naphthalene	0.34	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Phenanthrene	3.7	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS
Pyrene	7.4	0.28	mg/Kg dry	2		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.0	40-140		12/11/12 2:19
o-Terphenyl (OTP)	64.7	40-140		12/11/12 2:19
2-Bromonaphthalene	66.9	40-140		12/11/12 2:19
2-Fluorobiphenyl	83.6	40-140		12/11/12 2:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (1.5-5.5) | Sampled: 12/5/2012 14:50

Sample ID: 12L0189-45

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9900	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Antimony	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Arsenic	5.8	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Barium	150	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Cadmium	0.70	0.33	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Calcium	3700	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Chromium	25	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Cobalt	8.3	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Copper	99	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:16	OP
Iron	16000	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:16	OP
Lead	300	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Magnesium	3300	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Manganese	280	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Mercury	0.13	0.034	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:41	SAJ
Nickel	21	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Potassium	2100	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Sodium	180	130	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Vanadium	47	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP
Zinc	200	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:01	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (1.5-5.5)
Sampled: 12/5/2012 14:50

Sample ID: 12L0189-45

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.1	0.53	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	70.8		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (10-11)
Sampled: 12/5/2012 14:55

Sample ID: 12L0189-46

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.1	30-150		12/11/12 21:03
Decachlorobiphenyl [2]	110	30-150		12/11/12 21:03
Tetrachloro-m-xylene [1]	86.6	30-150		12/11/12 21:03
Tetrachloro-m-xylene [2]	88.8	30-150		12/11/12 21:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-1 (10-11)
Sampled: 12/5/2012 14:55
Sample ID: 12L0189-46
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 21:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.3	40-140		12/12/12 21:49
o-Terphenyl (OTP)	55.8	40-140		12/12/12 21:49
2-Bromonaphthalene	65.6	40-140		12/12/12 21:49
2-Fluorobiphenyl	75.7	40-140		12/12/12 21:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (10-11) | Sampled: 12/5/2012 14:55

Sample ID: 12L0189-46

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Arsenic	4.7	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Barium	46	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Calcium	810	8.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Chromium	21	0.58	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Cobalt	6.1	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Copper	1.7	0.58	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Iron	12000	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Lead	4.1	0.87	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Magnesium	2700	8.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Manganese	280	0.58	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:16	SAJ
Nickel	11	0.58	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Potassium	1300	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Sodium	160	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:41	OP
Vanadium	23	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP
Zinc	39	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:33	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-1 (10-11)
Sampled: 12/5/2012 14:55

Sample ID: 12L0189-46

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.40	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	84.2		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (0-1)
Sampled: 12/5/2012 15:30

Sample ID: 12L0189-47

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 19:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	76.1	30-150		12/13/12 19:23
Decachlorobiphenyl [2]	80.5	30-150		12/13/12 19:23
Tetrachloro-m-xylene [1]	88.6	30-150		12/13/12 19:23
Tetrachloro-m-xylene [2]	89.8	30-150		12/13/12 19:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-2 (0-1)
Sampled: 12/5/2012 15:30
Sample ID: 12L0189-47
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Unadjusted C11-C22 Aromatics	20	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
C11-C22 Aromatics	20	10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 2:40	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	63.9	40-140		12/11/12 2:40
o-Terphenyl (OTP)	67.1	40-140		12/11/12 2:40
2-Bromonaphthalene	70.5	40-140		12/11/12 2:40
2-Fluorobiphenyl	86.1	40-140		12/11/12 2:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (0-1) | Sampled: 12/5/2012 15:30

Sample ID: 12L0189-47

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5300	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Barium	23	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Calcium	2100	7.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Chromium	9.7	0.52	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Cobalt	4.3	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Copper	7.3	0.52	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:21	OP
Iron	8900	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:21	OP
Lead	5.9	0.78	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Magnesium	2500	7.8	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Manganese	140	0.52	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 13:43	SAJ
Nickel	8.0	0.52	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Potassium	1500	100	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Sodium	110	100	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Vanadium	14	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP
Zinc	31	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:26	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (0-1)
Sampled: 12/5/2012 15:30

Sample ID: 12L0189-47

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.46	mg/Kg dry	1		SW-846 9014	12/12/12	12/12/12 14:20	VAK
% Solids	93.5		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (1-6)
Sampled: 12/5/2012 15:35

Sample ID: 12L0189-48

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		12/13/12 16:12
Decachlorobiphenyl [2]	104	30-150		12/13/12 16:12
Tetrachloro-m-xylene [1]	103	30-150		12/13/12 16:12
Tetrachloro-m-xylene [2]	107	30-150		12/13/12 16:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-2 (1-6)
Sampled: 12/5/2012 15:35
Sample ID: 12L0189-48
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
C19-C36 Aliphatics	40	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Unadjusted C11-C22 Aromatics	110	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
C11-C22 Aromatics	86	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Acenaphthene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Acenaphthylene	0.47	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Anthracene	0.42	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Benzo(a)anthracene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Benzo(a)pyrene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Benzo(b)fluoranthene	2.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Benzo(g,h,i)perylene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Benzo(k)fluoranthene	0.95	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Chrysene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Dibenz(a,h)anthracene	0.48	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Fluoranthene	3.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Fluorene	0.25	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Indeno(1,2,3-cd)pyrene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Naphthalene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Phenanthrene	1.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS
Pyrene	3.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.5	40-140		12/11/12 3:01
o-Terphenyl (OTP)	65.3	40-140		12/11/12 3:01
2-Bromonaphthalene	74.6	40-140		12/11/12 3:01
2-Fluorobiphenyl	89.2	40-140		12/11/12 3:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (1-6) | Sampled: 12/5/2012 15:35

Sample ID: 12L0189-48

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Arsenic	6.4	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Barium	150	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/12/12 13:49	OP
Cadmium	0.54	0.27	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Calcium	2100	8.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Chromium	44	0.54	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Cobalt	11	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Copper	82	0.54	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:26	OP
Iron	19000	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:26	OP
Lead	210	0.81	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Magnesium	7100	8.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Manganese	300	0.54	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Mercury	0.094	0.028	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:18	SAJ
Nickel	29	0.54	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Potassium	5600	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Sodium	220	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Vanadium	46	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP
Zinc	130	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:30	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (1-6)
Sampled: 12/5/2012 15:35

Sample ID: 12L0189-48

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.50	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	88.7		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (6.5-7.5) | Sampled: 12/5/2012 15:40

Sample ID: 12L0189-49

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.8	30-150		12/11/12 21:15
Decachlorobiphenyl [2]	113	30-150		12/11/12 21:15
Tetrachloro-m-xylene [1]	92.4	30-150		12/11/12 21:15
Tetrachloro-m-xylene [2]	96.4	30-150		12/11/12 21:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (6.5-7.5) | Sampled: 12/5/2012 15:40

Sample ID: 12L0189-49

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.9	40-140		12/12/12 22:10
o-Terphenyl (OTP)	57.2	40-140		12/12/12 22:10
2-Bromonaphthalene	68.3	40-140		12/12/12 22:10
2-Fluorobiphenyl	74.3	40-140		12/12/12 22:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (6.5-7.5) | Sampled: 12/5/2012 15:40

Sample ID: 12L0189-49

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Arsenic	4.7	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Barium	66	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Calcium	1100	9.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Chromium	26	0.60	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Cobalt	7.6	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Copper	3.3	0.60	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Iron	14000	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Lead	7.3	0.90	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Magnesium	3400	9.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Manganese	230	0.60	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:17	SAJ
Nickel	12	0.60	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Potassium	1500	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Sodium	280	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 11:46	OP
Vanadium	31	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP
Zinc	35	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 20:38	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-2 (6.5-7.5)
Sampled: 12/5/2012 15:40

Sample ID: 12L0189-49

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.54	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	79.6		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (0-1)
Sampled: 12/5/2012 16:00

Sample ID: 12L0189-50

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		12/13/12 16:25
Decachlorobiphenyl [2]	97.5	30-150		12/13/12 16:25
Tetrachloro-m-xylene [1]	96.8	30-150		12/13/12 16:25
Tetrachloro-m-xylene [2]	100	30-150		12/13/12 16:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (0-1) | Sampled: 12/5/2012 16:00

Sample ID: 12L0189-50

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
C19-C36 Aliphatics	23	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Unadjusted C11-C22 Aromatics	24	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
C11-C22 Aromatics	24	11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Fluoranthene	0.16	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Indeno(1,2,3-cd)pyrene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Phenanthrene	0.11	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:22	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	61.9	40-140		12/11/12 3:22
o-Terphenyl (OTP)	62.5	40-140		12/11/12 3:22
2-Bromonaphthalene	68.8	40-140		12/11/12 3:22
2-Fluorobiphenyl	85.4	40-140		12/11/12 3:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (0-1) | Sampled: 12/5/2012 16:00

Sample ID: 12L0189-50

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Barium	90	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Beryllium	ND	1.4	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/12/12 13:53	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Calcium	5400	8.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Chromium	42	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Cobalt	11	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Copper	16	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:31	OP
Iron	21000	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:31	OP
Lead	12	0.82	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Magnesium	8800	8.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Manganese	250	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:20	SAJ
Nickel	31	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Potassium	7900	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Sodium	210	110	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Vanadium	41	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP
Zinc	49	1.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:35	OP

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (0-1)
Sampled: 12/5/2012 16:00

Sample ID: 12L0189-50

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.40	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	90.6		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (2.5-3.5)
Sampled: 12/5/2012 16:05

Sample ID: 12L0189-51

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	114	30-150		12/13/12 16:38
Decachlorobiphenyl [2]	129	30-150		12/13/12 16:38
Tetrachloro-m-xylene [1]	96.5	30-150		12/13/12 16:38
Tetrachloro-m-xylene [2]	99.9	30-150		12/13/12 16:38

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (2.5-3.5) | Sampled: 12/5/2012 16:05

Sample ID: 12L0189-51

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	61	mg/Kg dry	5	RL-05	MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
C19-C36 Aliphatics	330	61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Unadjusted C11-C22 Aromatics	870	61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
C11-C22 Aromatics	620	61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Acenaphthene	7.4	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Acenaphthylene	1.3	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Anthracene	11	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Benzo(a)anthracene	13	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Benzo(a)pyrene	12	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Benzo(b)fluoranthene	18	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Benzo(g,h,i)perylene	7.0	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Benzo(k)fluoranthene	6.5	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Chrysene	17	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Dibenz(a,h)anthracene	2.6	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Fluoranthene	41	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Fluorene	8.7	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Indeno(1,2,3-cd)pyrene	9.0	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
2-Methylnaphthalene	3.6	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Naphthalene	7.0	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Phenanthrene	48	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS
Pyrene	37	0.61	mg/Kg dry	5		MADEP-EPH-04-1.1	12/7/12	12/11/12 3:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	62.2	40-140		12/11/12 3:42
o-Terphenyl (OTP)	76.4	40-140		12/11/12 3:42
2-Bromonaphthalene	76.7	40-140		12/11/12 3:42
2-Fluorobiphenyl	98.7	40-140		12/11/12 3:42

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (2.5-3.5) | Sampled: 12/5/2012 16:05

Sample ID: 12L0189-51

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Arsenic	5.4	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Barium	130	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Beryllium	ND	1.5	mg/Kg dry	5	DL-04	SW-846 6010C	12/7/12	12/12/12 13:58	OP
Cadmium	0.48	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Calcium	1800	9.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Chromium	46	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Cobalt	9.8	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Copper	46	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:34	OP
Iron	20000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:34	OP
Lead	180	0.91	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Magnesium	7000	9.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Manganese	290	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Mercury	0.42	0.030	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:21	SAJ
Nickel	26	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Potassium	4900	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Selenium	ND	6.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Silver	ND	0.61	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Sodium	160	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Vanadium	46	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP
Zinc	130	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:40	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (2.5-3.5)
Sampled: 12/5/2012 16:05

Sample ID: 12L0189-51

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.43	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	81.2		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (5-7)
Sampled: 12/5/2012 16:10

Sample ID: 12L0189-52

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 21:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.2	30-150		12/11/12 21:54
Decachlorobiphenyl [2]	91.4	30-150		12/11/12 21:54
Tetrachloro-m-xylene [1]	80.3	30-150		12/11/12 21:54
Tetrachloro-m-xylene [2]	83.4	30-150		12/11/12 21:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: H-GP-3 (5-7)
Sampled: 12/5/2012 16:10
Sample ID: 12L0189-52
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	12/10/12	12/12/12 22:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	60.3	40-140		12/12/12 22:30
o-Terphenyl (OTP)	52.5	40-140		12/12/12 22:30
2-Bromonaphthalene	78.5	40-140		12/12/12 22:30
2-Fluorobiphenyl	84.6	40-140		12/12/12 22:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (5-7) | Sampled: 12/5/2012 16:10

Sample ID: 12L0189-52

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	19000	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Barium	62	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Calcium	1000	8.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Chromium	35	0.59	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Cobalt	10	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Copper	6.7	0.59	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Iron	18000	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Lead	6.5	0.89	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Magnesium	5500	8.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Manganese	260	0.59	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	12/11/12	12/11/12 12:19	SAJ
Nickel	17	0.59	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Potassium	2600	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Sodium	210	120	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 12:16	OP
Vanadium	41	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP
Zinc	48	1.2	mg/Kg dry	1		SW-846 6010C	12/11/12	12/11/12 21:03	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: H-GP-3 (5-7)
Sampled: 12/5/2012 16:10

Sample ID: 12L0189-52

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.32	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	83.5		% Wt	1		SM 2540G	12/11/12	12/12/12 14:29	CWB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-1
Sampled: 12/6/2012 09:00

Sample ID: 12L0189-53

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 16:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.2	30-150		12/13/12 16:51
Decachlorobiphenyl [2]	92.5	30-150		12/13/12 16:51
Tetrachloro-m-xylene [1]	90.9	30-150		12/13/12 16:51
Tetrachloro-m-xylene [2]	95.3	30-150		12/13/12 16:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-Bank-4-1
Sampled: 12/6/2012 09:00
Sample ID: 12L0189-53
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
C19-C36 Aliphatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Unadjusted C11-C22 Aromatics	42	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
C11-C22 Aromatics	42	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Acenaphthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Acenaphthylene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Benzo(a)anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Benzo(a)pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Benzo(b)fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Benzo(g,h,i)perylene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Benzo(k)fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Chrysene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Dibenz(a,h)anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Fluorene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
2-Methylnaphthalene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Naphthalene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Phenanthrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS
Pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 4:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.4	40-140		12/11/12 4:03
o-Terphenyl (OTP)	77.1	40-140		12/11/12 4:03
2-Bromonaphthalene	78.3	40-140		12/11/12 4:03
2-Fluorobiphenyl	95.7	40-140		12/11/12 4:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-1 | Sampled: 12/6/2012 09:00

Sample ID: 12L0189-53

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Barium	34	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Calcium	750	9.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Chromium	22	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Cobalt	4.9	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Copper	1.3	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:39	OP
Iron	11000	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:39	OP
Lead	6.4	0.90	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Magnesium	2800	9.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Manganese	85	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:23	SAJ
Nickel	8.4	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Potassium	830	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Sodium	ND	120	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Vanadium	23	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP
Zinc	22	1.2	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:45	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-1
Sampled: 12/6/2012 09:00

Sample ID: 12L0189-53

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.0	0.50	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	79.4		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-2
Sampled: 12/6/2012 09:10

Sample ID: 12L0189-54

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		12/13/12 17:03
Decachlorobiphenyl [2]	94.5	30-150		12/13/12 17:03
Tetrachloro-m-xylene [1]	103	30-150		12/13/12 17:03
Tetrachloro-m-xylene [2]	106	30-150		12/13/12 17:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-Bank-4-2
Sampled: 12/6/2012 09:10
Sample ID: 12L0189-54
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
C19-C36 Aliphatics	ND	19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Unadjusted C11-C22 Aromatics	39	19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
C11-C22 Aromatics	39	19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Acenaphthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Acenaphthylene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Chrysene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Fluoranthene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Fluorene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Naphthalene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Phenanthrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS
Pyrene	ND	0.19	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	72.0	40-140		12/11/12 12:07
o-Terphenyl (OTP)	66.1	40-140		12/11/12 12:07
2-Bromonaphthalene	65.2	40-140		12/11/12 12:07
2-Fluorobiphenyl	78.5	40-140		12/11/12 12:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-2 | Sampled: 12/6/2012 09:10

Sample ID: 12L0189-54

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Antimony	ND	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Arsenic	ND	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Barium	58	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Beryllium	ND	0.47	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Cadmium	ND	0.47	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Calcium	2400	14	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Chromium	32	0.94	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Cobalt	8.4	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Copper	11	0.94	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:44	OP
Iron	16000	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 9:44	OP
Lead	18	1.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Magnesium	5500	14	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Manganese	340	0.94	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Mercury	ND	0.048	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:25	SAJ
Nickel	16	0.94	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Potassium	2200	190	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Selenium	ND	9.4	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Silver	ND	0.94	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Sodium	ND	190	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Thallium	ND	4.7	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Vanadium	31	1.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP
Zinc	68	1.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:50	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-2
Sampled: 12/6/2012 09:10

Sample ID: 12L0189-54

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.52	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	51.0		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-3
Sampled: 12/6/2012 09:15

Sample ID: 12L0189-55

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1254 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:06	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.1	30-150		12/11/12 22:06
Decachlorobiphenyl [2]	115	30-150		12/11/12 22:06
Tetrachloro-m-xylene [1]	97.1	30-150		12/11/12 22:06
Tetrachloro-m-xylene [2]	100	30-150		12/11/12 22:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-Bank-4-3
Sampled: 12/6/2012 09:15
Sample ID: 12L0189-55
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
C19-C36 Aliphatics	98	50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Unadjusted C11-C22 Aromatics	220	50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
C11-C22 Aromatics	220	50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Acenaphthene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Acenaphthylene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Anthracene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Benzo(a)anthracene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Benzo(a)pyrene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Benzo(b)fluoranthene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Benzo(g,h,i)perylene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Benzo(k)fluoranthene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Chrysene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Dibenz(a,h)anthracene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Fluoranthene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Fluorene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Indeno(1,2,3-cd)pyrene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
2-Methylnaphthalene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Naphthalene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Phenanthrene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS
Pyrene	ND	0.50	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 12:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	48.0	40-140		12/11/12 12:28
o-Terphenyl (OTP)	44.2	40-140		12/11/12 12:28
2-Bromonaphthalene	54.1	40-140		12/11/12 12:28
2-Fluorobiphenyl	78.3	40-140		12/11/12 12:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-3 | Sampled: 12/6/2012 09:15

Sample ID: 12L0189-55

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2600	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Antimony	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Arsenic	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Barium	31	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Beryllium	ND	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Cadmium	ND	0.63	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Calcium	4200	19	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Chromium	6.0	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Cobalt	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Copper	11	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 10:05	OP
Iron	3200	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 10:05	OP
Lead	11	1.9	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Magnesium	1200	19	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Manganese	130	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Mercury	0.088	0.064	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:26	SAJ
Nickel	4.4	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Potassium	910	250	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Selenium	ND	13	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Silver	ND	1.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Sodium	ND	250	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Thallium	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Vanadium	6.5	2.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP
Zinc	37	2.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:55	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-3
Sampled: 12/6/2012 09:15

Sample ID: 12L0189-55

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	1.2	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	39.1		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-4 | Sampled: 12/6/2012 09:25

Sample ID: 12L0189-56

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1260 [2]	0.28	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	12/10/12	12/11/12 22:19	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	100	30-150		12/11/12 22:19
Decachlorobiphenyl [2]	116	30-150		12/11/12 22:19
Tetrachloro-m-xylene [1]	98.2	30-150		12/11/12 22:19
Tetrachloro-m-xylene [2]	102	30-150		12/11/12 22:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-Bank-4-4
Sampled: 12/6/2012 09:25
Sample ID: 12L0189-56
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
C19-C36 Aliphatics	ND	22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Unadjusted C11-C22 Aromatics	46	22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
C11-C22 Aromatics	46	22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Acenaphthene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Acenaphthylene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Anthracene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Chrysene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Fluoranthene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Fluorene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Naphthalene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Phenanthrene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS
Pyrene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	12/7/12	12/11/12 17:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.5	40-140		12/11/12 17:17
o-Terphenyl (OTP)	57.4	40-140		12/11/12 17:17
2-Bromonaphthalene	69.5	40-140		12/11/12 17:17
2-Fluorobiphenyl	81.4	40-140		12/11/12 17:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-4 | Sampled: 12/6/2012 09:25

Sample ID: 12L0189-56

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8900	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Antimony	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Arsenic	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Barium	41	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Beryllium	ND	0.51	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Cadmium	ND	0.51	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Calcium	1900	15	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Chromium	20	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Cobalt	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Copper	10	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 10:09	OP
Iron	11000	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/11/12 10:09	OP
Lead	17	1.5	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Magnesium	3300	15	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Manganese	130	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Mercury	ND	0.054	mg/Kg dry	1		SW-846 7471B	12/7/12	12/10/12 14:28	SAJ
Nickel	10	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Potassium	1400	210	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Selenium	ND	10	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Silver	ND	1.0	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Sodium	ND	210	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Thallium	ND	5.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Vanadium	20	2.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP
Zinc	39	2.1	mg/Kg dry	1		SW-846 6010C	12/7/12	12/10/12 17:58	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-Bank-4-4
Sampled: 12/6/2012 09:25

Sample ID: 12L0189-56

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	1.0	mg/Kg dry	1		SW-846 9014	12/13/12	12/13/12 13:05	VAK
% Solids	45.1		% Wt	1		SM 2540G	12/7/12	12/8/12 10:08	EW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-18 (0-1) R
Sampled: 12/10/2012 14:00

Sample ID: 12L0189-57

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.8	30-150		12/13/12 17:16
Decachlorobiphenyl [2]	90.2	30-150		12/13/12 17:16
Tetrachloro-m-xylene [1]	97.2	30-150		12/13/12 17:16
Tetrachloro-m-xylene [2]	101	30-150		12/13/12 17:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-18 (0-1) R | Sampled: 12/10/2012 14:00

Sample ID: 12L0189-57

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
C19-C36 Aliphatics	74	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Unadjusted C11-C22 Aromatics	52	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
C11-C22 Aromatics	50	15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Acenaphthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Acenaphthylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Benzo(a)anthracene	0.21	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Benzo(a)pyrene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Benzo(b)fluoranthene	0.38	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Benzo(g,h,i)perylene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Benzo(k)fluoranthene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Chrysene	0.29	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Dibenz(a,h)anthracene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Fluoranthene	0.46	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Fluorene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Indeno(1,2,3-cd)pyrene	0.23	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
2-Methylnaphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Naphthalene	ND	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Phenanthrene	0.31	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS
Pyrene	0.39	0.15	mg/Kg dry	1		MADEP-EPH-04-1.1	12/11/12	12/12/12 16:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	45.1	40-140		12/12/12 16:17
o-Terphenyl (OTP)	42.1	40-140		12/12/12 16:17
2-Bromonaphthalene	68.8	40-140		12/12/12 16:17
2-Fluorobiphenyl	76.2	40-140		12/12/12 16:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-18 (0-1) R | Sampled: 12/10/2012 14:00

Sample ID: 12L0189-57

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Antimony	ND	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Arsenic	21	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Barium	1300	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Beryllium	ND	0.37	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Cadmium	4.3	0.37	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:29	OP
Calcium	2800	11	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Chromium	120	0.75	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Cobalt	12	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:29	OP
Copper	470	0.75	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Iron	38000	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Lead	2100	1.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Magnesium	5900	11	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Manganese	490	0.75	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Mercury	6.3	0.75	mg/Kg dry	20		SW-846 7471B	12/12/12	12/12/12 14:06	SAJ
Nickel	32	0.75	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Potassium	2700	150	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Selenium	ND	7.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Silver	2.3	0.75	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Sodium	ND	150	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Thallium	ND	3.7	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:29	OP
Vanadium	58	1.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP
Zinc	1100	1.5	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:52	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-18 (0-1) R
Sampled: 12/10/2012 14:00

Sample ID: 12L0189-57

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	17	0.67	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	65.9		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

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Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-19 (0-1) R
Sampled: 12/10/2012 14:30

Sample ID: 12L0189-58

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/12/12	12/13/12 17:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.0	30-150		12/13/12 17:29
Decachlorobiphenyl [2]	86.9	30-150		12/13/12 17:29
Tetrachloro-m-xylene [1]	93.1	30-150		12/13/12 17:29
Tetrachloro-m-xylene [2]	96.9	30-150		12/13/12 17:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189
Date Received: 12/6/2012
Field Sample #: T-GP-19 (0-1) R
Sampled: 12/10/2012 14:30
Sample ID: 12L0189-58
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
C19-C36 Aliphatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Unadjusted C11-C22 Aromatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
C11-C22 Aromatics	ND	25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Acenaphthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Acenaphthylene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Benzo(a)anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Benzo(a)pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Benzo(b)fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Benzo(g,h,i)perylene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Benzo(k)fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Chrysene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Dibenz(a,h)anthracene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Fluoranthene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Fluorene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
2-Methylnaphthalene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Naphthalene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Phenanthrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS
Pyrene	ND	0.25	mg/Kg dry	1		MADEP-EPH-04-1.1	12/13/12	12/14/12 1:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.7	40-140		12/14/12 1:38
o-Terphenyl (OTP)	64.8	40-140		12/14/12 1:38
2-Bromonaphthalene	63.6	40-140		12/14/12 1:38
2-Fluorobiphenyl	73.0	40-140		12/14/12 1:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME | Sample Description: | Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-19 (0-1) R | Sampled: 12/10/2012 14:30

Sample ID: 12L0189-58

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	27000	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Arsenic	14	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Barium	230	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Beryllium	ND	0.63	mg/Kg dry	2	DL-04	SW-846 6010C	12/11/12	12/13/12 11:52	OP
Cadmium	0.67	0.31	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:48	OP
Calcium	600	9.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Chromium	86	0.63	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Cobalt	12	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:48	OP
Copper	16	0.63	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Iron	28000	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Lead	120	0.94	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Magnesium	6300	9.4	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Manganese	140	0.63	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Mercury	0.17	0.032	mg/Kg dry	1		SW-846 7471B	12/12/12	12/12/12 13:57	SAJ
Nickel	30	0.63	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Potassium	1400	130	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Silver	ND	0.63	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Sodium	ND	130	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	12/11/12	12/13/12 11:48	OP
Vanadium	77	1.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP
Zinc	140	1.3	mg/Kg dry	1		SW-846 6010C	12/11/12	12/12/12 17:56	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Windham, ME
Sample Description:
Work Order: 12L0189

Date Received: 12/6/2012

Field Sample #: T-GP-19 (0-1) R
Sampled: 12/10/2012 14:30

Sample ID: 12L0189-58

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	9.0	0.54	mg/Kg dry	1		SW-846 9014	12/14/12	12/14/12 15:00	VAK
% Solids	78.0		% Wt	1		SM 2540G	12/11/12	12/12/12 14:35	CWB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-01 [T-GP-1 (0-1)]	B064255	20.2	2.00	12/07/12
12L0189-02 [T-GP-1 (4-6.5)]	B064255	20.3	2.00	12/07/12
12L0189-04 [T-GP-2 (0-1)]	B064255	20.0	2.00	12/07/12
12L0189-05 [T-GP-2 (2-6)]	B064255	10.0	2.00	12/07/12
12L0189-07 [T-GP-3 (0-1)]	B064255	20.3	2.00	12/07/12
12L0189-08 [T-GP-3 (1-1.5)]	B064255	20.2	2.00	12/07/12
12L0189-10 [T-GP-4 (0-1)]	B064255	20.2	2.00	12/07/12
12L0189-12 [T-GP-5 (0-1)]	B064255	20.2	2.00	12/07/12
12L0189-15 [T-GP-6 (0-1)]	B064255	20.4	2.00	12/07/12
12L0189-25 [T-GP-11 (0-1)]	B064255	20.3	2.00	12/07/12
12L0189-27 [T-GP-12 (0-1)]	B064255	20.4	2.00	12/07/12
12L0189-29 [T-GP-13 (0-1)]	B064255	20.0	2.00	12/07/12
12L0189-30 [Dup-1]	B064255	20.3	2.00	12/07/12
12L0189-32 [T-GP-14 (0-1)]	B064255	20.0	2.00	12/07/12
12L0189-33 [T-GP-14 (1.5-5.5)]	B064255	20.0	2.00	12/07/12
12L0189-35 [T-GP-15 (0-1)]	B064255	20.0	2.00	12/07/12
12L0189-36 [T-GP-15 (1-1.5)]	B064255	20.1	2.00	12/07/12
12L0189-38 [T-GP-16 (0-1)]	B064255	20.0	2.00	12/07/12
12L0189-39 [Dup-2]	B064255	20.1	2.00	12/07/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-41 [T-GP-17 (0-1)]	B064285	20.0	2.00	12/07/12
12L0189-42 [T-GP-17 (1-5.5)]	B064285	20.2	2.00	12/07/12
12L0189-44 [H-GP-1 (0-1)]	B064285	20.2	2.00	12/07/12
12L0189-45 [H-GP-1 (1.5-5.5)]	B064285	20.2	2.00	12/07/12
12L0189-47 [H-GP-2 (0-1)]	B064285	20.4	2.00	12/07/12
12L0189-48 [H-GP-2 (1-6)]	B064285	20.4	2.00	12/07/12
12L0189-50 [H-GP-3 (0-1)]	B064285	20.4	2.00	12/07/12
12L0189-51 [H-GP-3 (2.5-3.5)]	B064285	20.3	2.00	12/07/12
12L0189-53 [T-Bank-4-1]	B064285	10.2	2.00	12/07/12
12L0189-54 [T-Bank-4-2]	B064285	20.3	2.00	12/07/12
12L0189-55 [T-Bank-4-3]	B064285	10.2	2.00	12/07/12
12L0189-56 [T-Bank-4-4]	B064285	20.0	2.00	12/07/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-09 [T-GP-3 (5-7)]	B064302	20.4	2.00	12/10/12
12L0189-14 [T-GP-5 (6-8)]	B064302	20.2	2.00	12/10/12
12L0189-31 [T-GP-13 (1-3)]	B064302	20.4	2.00	12/10/12
12L0189-34 [T-GP-14 (6-7)]	B064302	20.3	2.00	12/10/12
12L0189-37 [T-GP-15 (2-6)]	B064302	20.2	2.00	12/10/12
12L0189-40 [T-GP-16 (1-2.5)]	B064302	20.4	2.00	12/10/12
12L0189-43 [T-GP-17 (10-12)]	B064302	20.1	2.00	12/10/12
12L0189-46 [H-GP-1 (10-11)]	B064302	20.2	2.00	12/10/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064302	20.2	2.00	12/10/12
12L0189-52 [H-GP-3 (5-7)]	B064302	20.4	2.00	12/10/12

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Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064404	20.2	2.00	12/11/12
12L0189-17 [T-GP-7 (0-1) R]	B064404	20.1	2.00	12/11/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064404	20.1	2.00	12/11/12
12L0189-19 [T-GP-8 (0-1) R]	B064404	20.4	2.00	12/11/12
12L0189-23 [T-GP-10 (0-1) R]	B064404	20.1	2.00	12/11/12
12L0189-57 [T-GP-18 (0-1) R]	B064404	20.2	2.00	12/11/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-21RE1 [T-GP-9 (0-1)]	B064513	10.0	2.00	12/12/12

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-58RE1 [T-GP-19 (0-1) R]	B064554	10.1	2.00	12/13/12

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0189-01 [T-GP-1 (0-1)]	B064254	12/07/12
12L0189-02 [T-GP-1 (4-6.5)]	B064254	12/07/12
12L0189-04 [T-GP-2 (0-1)]	B064254	12/07/12
12L0189-05 [T-GP-2 (2-6)]	B064254	12/07/12
12L0189-07 [T-GP-3 (0-1)]	B064254	12/07/12
12L0189-08 [T-GP-3 (1-1.5)]	B064254	12/07/12
12L0189-12 [T-GP-5 (0-1)]	B064254	12/07/12
12L0189-15 [T-GP-6 (0-1)]	B064254	12/07/12
12L0189-21 [T-GP-9 (0-1)]	B064254	12/07/12
12L0189-25 [T-GP-11 (0-1)]	B064254	12/07/12
12L0189-27 [T-GP-12 (0-1)]	B064254	12/07/12
12L0189-29 [T-GP-13 (0-1)]	B064254	12/07/12
12L0189-30 [Dup-1]	B064254	12/07/12
12L0189-32 [T-GP-14 (0-1)]	B064254	12/07/12
12L0189-33 [T-GP-14 (1.5-5.5)]	B064254	12/07/12
12L0189-35 [T-GP-15 (0-1)]	B064254	12/07/12
12L0189-36 [T-GP-15 (1-1.5)]	B064254	12/07/12
12L0189-38 [T-GP-16 (0-1)]	B064254	12/07/12
12L0189-39 [Dup-2]	B064254	12/07/12
12L0189-41 [T-GP-17 (0-1)]	B064254	12/07/12
12L0189-42 [T-GP-17 (1-5.5)]	B064254	12/07/12
12L0189-44 [H-GP-1 (0-1)]	B064254	12/07/12
12L0189-45 [H-GP-1 (1.5-5.5)]	B064254	12/07/12
12L0189-47 [H-GP-2 (0-1)]	B064254	12/07/12
12L0189-48 [H-GP-2 (1-6)]	B064254	12/07/12
12L0189-50 [H-GP-3 (0-1)]	B064254	12/07/12
12L0189-51 [H-GP-3 (2.5-3.5)]	B064254	12/07/12
12L0189-53 [T-Bank-4-1]	B064254	12/07/12
12L0189-54 [T-Bank-4-2]	B064254	12/07/12
12L0189-55 [T-Bank-4-3]	B064254	12/07/12
12L0189-56 [T-Bank-4-4]	B064254	12/07/12

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0189-10 [T-GP-4 (0-1)]	B064270	12/07/12

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0189-09 [T-GP-3 (5-7)]	B064381	12/11/12
12L0189-14 [T-GP-5 (6-8)]	B064381	12/11/12
12L0189-31 [T-GP-13 (1-3)]	B064381	12/11/12
12L0189-34 [T-GP-14 (6-7)]	B064381	12/11/12
12L0189-37 [T-GP-15 (2-6)]	B064381	12/11/12
12L0189-40 [T-GP-16 (1-2.5)]	B064381	12/11/12
12L0189-43 [T-GP-17 (10-12)]	B064381	12/11/12
12L0189-46 [H-GP-1 (10-11)]	B064381	12/11/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064381	12/11/12
12L0189-52 [H-GP-3 (5-7)]	B064381	12/11/12

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064423	12/11/12
12L0189-17 [T-GP-7 (0-1) R]	B064423	12/11/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064423	12/11/12
12L0189-19 [T-GP-8 (0-1) R]	B064423	12/11/12
12L0189-23 [T-GP-10 (0-1) R]	B064423	12/11/12
12L0189-57 [T-GP-18 (0-1) R]	B064423	12/11/12
12L0189-58 [T-GP-19 (0-1) R]	B064423	12/11/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-45 [H-GP-1 (1.5-5.5)]	B064252	1.05	50.0	12/07/12
12L0189-47 [H-GP-2 (0-1)]	B064252	1.02	50.0	12/07/12
12L0189-48 [H-GP-2 (1-6)]	B064252	1.04	50.0	12/07/12
12L0189-50 [H-GP-3 (0-1)]	B064252	1.01	50.0	12/07/12
12L0189-51 [H-GP-3 (2.5-3.5)]	B064252	1.01	50.0	12/07/12
12L0189-53 [T-Bank-4-1]	B064252	1.04	50.0	12/07/12
12L0189-54 [T-Bank-4-2]	B064252	1.04	50.0	12/07/12
12L0189-55 [T-Bank-4-3]	B064252	1.01	50.0	12/07/12
12L0189-56 [T-Bank-4-4]	B064252	1.08	50.0	12/07/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-05 [T-GP-2 (2-6)]	B064261	1.01	50.0	12/07/12
12L0189-07 [T-GP-3 (0-1)]	B064261	1.00	50.0	12/07/12
12L0189-08 [T-GP-3 (1-1.5)]	B064261	1.04	50.0	12/07/12
12L0189-10 [T-GP-4 (0-1)]	B064261	1.05	50.0	12/07/12
12L0189-12 [T-GP-5 (0-1)]	B064261	1.04	50.0	12/07/12
12L0189-15 [T-GP-6 (0-1)]	B064261	1.06	50.0	12/07/12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-21 [T-GP-9 (0-1)]	B064261	1.06	50.0	12/07/12
12L0189-25 [T-GP-11 (0-1)]	B064261	1.00	50.0	12/07/12
12L0189-27 [T-GP-12 (0-1)]	B064261	1.02	50.0	12/07/12
12L0189-29 [T-GP-13 (0-1)]	B064261	1.04	50.0	12/07/12
12L0189-30 [Dup-1]	B064261	1.08	50.0	12/07/12
12L0189-32 [T-GP-14 (0-1)]	B064261	1.00	50.0	12/07/12
12L0189-33 [T-GP-14 (1.5-5.5)]	B064261	1.00	50.0	12/07/12
12L0189-35 [T-GP-15 (0-1)]	B064261	1.01	50.0	12/07/12
12L0189-36 [T-GP-15 (1-1.5)]	B064261	1.01	50.0	12/07/12
12L0189-38 [T-GP-16 (0-1)]	B064261	1.01	50.0	12/07/12
12L0189-39 [Dup-2]	B064261	1.04	50.0	12/07/12
12L0189-41 [T-GP-17 (0-1)]	B064261	1.04	50.0	12/07/12
12L0189-42 [T-GP-17 (1-5.5)]	B064261	1.08	50.0	12/07/12
12L0189-44 [H-GP-1 (0-1)]	B064261	1.00	50.0	12/07/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-01 [T-GP-1 (0-1)]	B064291	1.04	50.0	12/08/12
12L0189-02 [T-GP-1 (4-6.5)]	B064291	1.03	50.0	12/08/12
12L0189-04 [T-GP-2 (0-1)]	B064291	1.04	50.0	12/08/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-09 [T-GP-3 (5-7)]	B064353	1.02	50.0	12/11/12
12L0189-14 [T-GP-5 (6-8)]	B064353	1.02	50.0	12/11/12
12L0189-31 [T-GP-13 (1-3)]	B064353	1.02	50.0	12/11/12
12L0189-34 [T-GP-14 (6-7)]	B064353	1.00	50.0	12/11/12
12L0189-37 [T-GP-15 (2-6)]	B064353	1.01	50.0	12/11/12
12L0189-40 [T-GP-16 (1-2.5)]	B064353	1.04	50.0	12/11/12
12L0189-43 [T-GP-17 (10-12)]	B064353	1.03	50.0	12/11/12
12L0189-46 [H-GP-1 (10-11)]	B064353	1.02	50.0	12/11/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064353	1.04	50.0	12/11/12
12L0189-52 [H-GP-3 (5-7)]	B064353	1.01	50.0	12/11/12

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064425	1.01	50.0	12/11/12
12L0189-17 [T-GP-7 (0-1) R]	B064425	1.03	50.0	12/11/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064425	1.03	50.0	12/11/12
12L0189-19 [T-GP-8 (0-1) R]	B064425	1.03	50.0	12/11/12
12L0189-23 [T-GP-10 (0-1) R]	B064425	1.01	50.0	12/11/12
12L0189-57 [T-GP-18 (0-1) R]	B064425	1.01	50.0	12/11/12
12L0189-58 [T-GP-19 (0-1) R]	B064425	1.02	50.0	12/11/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-29 [T-GP-13 (0-1)]	B064266	0.611	50.0	12/07/12
12L0189-30 [Dup-1]	B064266	0.609	50.0	12/07/12
12L0189-32 [T-GP-14 (0-1)]	B064266	0.613	50.0	12/07/12
12L0189-33 [T-GP-14 (1.5-5.5)]	B064266	0.609	50.0	12/07/12
12L0189-35 [T-GP-15 (0-1)]	B064266	0.618	50.0	12/07/12
12L0189-36 [T-GP-15 (1-1.5)]	B064266	0.606	50.0	12/07/12
12L0189-38 [T-GP-16 (0-1)]	B064266	0.606	50.0	12/07/12
12L0189-39 [Dup-2]	B064266	0.605	50.0	12/07/12
12L0189-41 [T-GP-17 (0-1)]	B064266	0.604	50.0	12/07/12
12L0189-42 [T-GP-17 (1-5.5)]	B064266	0.614	50.0	12/07/12
12L0189-44 [H-GP-1 (0-1)]	B064266	0.613	50.0	12/07/12
12L0189-45 [H-GP-1 (1.5-5.5)]	B064266	0.616	50.0	12/07/12
12L0189-47 [H-GP-2 (0-1)]	B064266	0.608	50.0	12/07/12
12L0189-48 [H-GP-2 (1-6)]	B064266	0.607	50.0	12/07/12
12L0189-50 [H-GP-3 (0-1)]	B064266	0.607	50.0	12/07/12
12L0189-51 [H-GP-3 (2.5-3.5)]	B064266	0.614	50.0	12/07/12
12L0189-53 [T-Bank-4-1]	B064266	0.606	50.0	12/07/12
12L0189-54 [T-Bank-4-2]	B064266	0.608	50.0	12/07/12
12L0189-55 [T-Bank-4-3]	B064266	0.599	50.0	12/07/12
12L0189-56 [T-Bank-4-4]	B064266	0.613	50.0	12/07/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-01 [T-GP-1 (0-1)]	B064292	0.604	50.0	12/08/12
12L0189-02 [T-GP-1 (4-6.5)]	B064292	0.608	50.0	12/08/12
12L0189-04 [T-GP-2 (0-1)]	B064292	0.619	50.0	12/08/12
12L0189-05 [T-GP-2 (2-6)]	B064292	0.613	50.0	12/08/12
12L0189-07 [T-GP-3 (0-1)]	B064292	0.611	50.0	12/08/12
12L0189-08 [T-GP-3 (1-1.5)]	B064292	0.615	50.0	12/08/12
12L0189-12 [T-GP-5 (0-1)]	B064292	0.608	50.0	12/08/12
12L0189-15 [T-GP-6 (0-1)]	B064292	0.615	50.0	12/08/12
12L0189-21 [T-GP-9 (0-1)]	B064292	0.610	50.0	12/08/12
12L0189-25 [T-GP-11 (0-1)]	B064292	0.615	50.0	12/08/12
12L0189-27 [T-GP-12 (0-1)]	B064292	0.601	50.0	12/08/12

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-09 [T-GP-3 (5-7)]	B064351	0.603	50.0	12/11/12
12L0189-10RE1 [T-GP-4 (0-1)]	B064351	0.600	50.0	12/11/12
12L0189-14 [T-GP-5 (6-8)]	B064351	0.612	50.0	12/11/12
12L0189-31 [T-GP-13 (1-3)]	B064351	0.603	50.0	12/11/12
12L0189-34 [T-GP-14 (6-7)]	B064351	0.600	50.0	12/11/12
12L0189-37 [T-GP-15 (2-6)]	B064351	0.612	50.0	12/11/12
12L0189-40 [T-GP-16 (1-2.5)]	B064351	0.604	50.0	12/11/12
12L0189-43 [T-GP-17 (10-12)]	B064351	0.612	50.0	12/11/12
12L0189-46 [H-GP-1 (10-11)]	B064351	0.616	50.0	12/11/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064351	0.612	50.0	12/11/12
12L0189-52 [H-GP-3 (5-7)]	B064351	0.611	50.0	12/11/12

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Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064426	0.613	50.0	12/12/12
12L0189-17 [T-GP-7 (0-1) R]	B064426	0.608	50.0	12/12/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064426	0.603	50.0	12/12/12
12L0189-19 [T-GP-8 (0-1) R]	B064426	0.601	50.0	12/12/12
12L0189-23 [T-GP-10 (0-1) R]	B064426	0.607	50.0	12/12/12
12L0189-57 [T-GP-18 (0-1) R]	B064426	0.608	50.0	12/12/12
12L0189-58 [T-GP-19 (0-1) R]	B064426	0.609	50.0	12/12/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-01 [T-GP-1 (0-1)]	B064277	10.2	10.0	12/07/12
12L0189-02 [T-GP-1 (4-6.5)]	B064277	10.2	10.0	12/07/12
12L0189-04 [T-GP-2 (0-1)]	B064277	10.0	10.0	12/07/12
12L0189-05 [T-GP-2 (2-6)]	B064277	10.0	10.0	12/07/12
12L0189-07 [T-GP-3 (0-1)]	B064277	10.1	10.0	12/07/12
12L0189-08 [T-GP-3 (1-1.5)]	B064277	10.3	10.0	12/07/12
12L0189-10 [T-GP-4 (0-1)]	B064277	10.3	10.0	12/07/12
12L0189-12 [T-GP-5 (0-1)]	B064277	10.1	10.0	12/07/12
12L0189-15 [T-GP-6 (0-1)]	B064277	10.2	10.0	12/07/12
12L0189-21 [T-GP-9 (0-1)]	B064277	10.3	10.0	12/07/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-09 [T-GP-3 (5-7)]	B064356	10.0	10.0	12/10/12
12L0189-14 [T-GP-5 (6-8)]	B064356	10.1	10.0	12/10/12
12L0189-31 [T-GP-13 (1-3)]	B064356	10.3	10.0	12/10/12
12L0189-34 [T-GP-14 (6-7)]	B064356	10.3	10.0	12/10/12
12L0189-37 [T-GP-15 (2-6)]	B064356	10.2	10.0	12/10/12
12L0189-40 [T-GP-16 (1-2.5)]	B064356	10.3	10.0	12/10/12
12L0189-43 [T-GP-17 (10-12)]	B064356	10.2	10.0	12/10/12
12L0189-46 [H-GP-1 (10-11)]	B064356	10.2	10.0	12/10/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064356	10.2	10.0	12/10/12
12L0189-52 [H-GP-3 (5-7)]	B064356	10.2	10.0	12/10/12
12L0189-55 [T-Bank-4-3]	B064356	10.1	10.0	12/10/12
12L0189-56 [T-Bank-4-4]	B064356	10.3	10.0	12/10/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064489	10.0	10.0	12/12/12
12L0189-17 [T-GP-7 (0-1) R]	B064489	10.3	10.0	12/12/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064489	10.1	10.0	12/12/12
12L0189-19 [T-GP-8 (0-1) R]	B064489	10.2	10.0	12/12/12
12L0189-23 [T-GP-10 (0-1) R]	B064489	10.0	10.0	12/12/12
12L0189-25RE1 [T-GP-11 (0-1)]	B064489	10.2	10.0	12/12/12
12L0189-27RE1 [T-GP-12 (0-1)]	B064489	10.4	10.0	12/12/12
12L0189-29RE1 [T-GP-13 (0-1)]	B064489	10.1	10.0	12/12/12
12L0189-30RE1 [Dup-1]	B064489	10.3	10.0	12/12/12
12L0189-32RE1 [T-GP-14 (0-1)]	B064489	10.2	10.0	12/12/12

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-33RE1 [T-GP-14 (1.5-5.5)]	B064489	10.0	10.0	12/12/12
12L0189-35RE1 [T-GP-15 (0-1)]	B064489	10.2	10.0	12/12/12
12L0189-36RE1 [T-GP-15 (1-1.5)]	B064489	10.0	10.0	12/12/12
12L0189-38RE1 [T-GP-16 (0-1)]	B064489	10.1	10.0	12/12/12
12L0189-39RE1 [Dup-2]	B064489	10.2	10.0	12/12/12
12L0189-41RE1 [T-GP-17 (0-1)]	B064489	10.0	10.0	12/12/12
12L0189-42RE1 [T-GP-17 (1-5.5)]	B064489	10.3	10.0	12/12/12
12L0189-44RE1 [H-GP-1 (0-1)]	B064489	10.1	10.0	12/12/12
12L0189-45RE1 [H-GP-1 (1.5-5.5)]	B064489	10.1	10.0	12/12/12
12L0189-47RE1 [H-GP-2 (0-1)]	B064489	10.1	10.0	12/12/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-48RE1 [H-GP-2 (1-6)]	B064491	10.1	10.0	12/12/12
12L0189-50RE1 [H-GP-3 (0-1)]	B064491	10.3	10.0	12/12/12
12L0189-51RE1 [H-GP-3 (2.5-3.5)]	B064491	10.2	10.0	12/12/12
12L0189-53RE1 [T-Bank-4-1]	B064491	10.1	10.0	12/12/12
12L0189-54RE1 [T-Bank-4-2]	B064491	10.3	10.0	12/12/12
12L0189-57 [T-GP-18 (0-1) R]	B064491	10.4	10.0	12/12/12
12L0189-58 [T-GP-19 (0-1) R]	B064491	10.0	10.0	12/12/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-01 [T-GP-1 (0-1)]	B064343	1.80	50.0	12/11/12
12L0189-02 [T-GP-1 (4-6.5)]	B064343	1.51	50.0	12/11/12
12L0189-04 [T-GP-2 (0-1)]	B064343	1.15	50.0	12/11/12
12L0189-07 [T-GP-3 (0-1)]	B064343	1.01	50.0	12/11/12
12L0189-08 [T-GP-3 (1-1.5)]	B064343	1.04	50.0	12/11/12
12L0189-25 [T-GP-11 (0-1)]	B064343	1.41	50.0	12/11/12
12L0189-27 [T-GP-12 (0-1)]	B064343	1.23	50.0	12/11/12
12L0189-29 [T-GP-13 (0-1)]	B064343	1.17	50.0	12/11/12
12L0189-30 [Dup-1]	B064343	1.48	50.0	12/11/12
12L0189-32 [T-GP-14 (0-1)]	B064343	1.42	50.0	12/11/12
12L0189-33 [T-GP-14 (1.5-5.5)]	B064343	1.27	50.0	12/11/12
12L0189-35 [T-GP-15 (0-1)]	B064343	1.17	50.0	12/11/12
12L0189-36 [T-GP-15 (1-1.5)]	B064343	1.37	50.0	12/11/12
12L0189-38 [T-GP-16 (0-1)]	B064343	1.31	50.0	12/11/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-09 [T-GP-3 (5-7)]	B064411	1.02	50.0	12/12/12
12L0189-14 [T-GP-5 (6-8)]	B064411	1.23	50.0	12/12/12
12L0189-31 [T-GP-13 (1-3)]	B064411	1.23	50.0	12/12/12
12L0189-34 [T-GP-14 (6-7)]	B064411	1.24	50.0	12/12/12
12L0189-37 [T-GP-15 (2-6)]	B064411	1.03	50.0	12/12/12
12L0189-39 [Dup-2]	B064411	1.03	50.0	12/12/12
12L0189-40 [T-GP-16 (1-2.5)]	B064411	1.30	50.0	12/12/12
12L0189-41 [T-GP-17 (0-1)]	B064411	1.42	50.0	12/12/12

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Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-42 [T-GP-17 (1-5.5)]	B064411	1.07	50.0	12/12/12
12L0189-43 [T-GP-17 (10-12)]	B064411	1.24	50.0	12/12/12
12L0189-44 [H-GP-1 (0-1)]	B064411	1.12	50.0	12/12/12
12L0189-45 [H-GP-1 (1.5-5.5)]	B064411	1.33	50.0	12/12/12
12L0189-46 [H-GP-1 (10-11)]	B064411	1.49	50.0	12/12/12
12L0189-47 [H-GP-2 (0-1)]	B064411	1.15	50.0	12/12/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-48 [H-GP-2 (1-6)]	B064505	1.13	50.0	12/13/12
12L0189-49 [H-GP-2 (6.5-7.5)]	B064505	1.16	50.0	12/13/12
12L0189-50 [H-GP-3 (0-1)]	B064505	1.39	50.0	12/13/12
12L0189-51 [H-GP-3 (2.5-3.5)]	B064505	1.45	50.0	12/13/12
12L0189-52 [H-GP-3 (5-7)]	B064505	1.85	50.0	12/13/12
12L0189-53 [T-Bank-4-1]	B064505	1.27	50.0	12/13/12
12L0189-54 [T-Bank-4-2]	B064505	1.89	50.0	12/13/12
12L0189-55 [T-Bank-4-3]	B064505	1.04	50.0	12/13/12
12L0189-56 [T-Bank-4-4]	B064505	1.07	50.0	12/13/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-13 [T-GP-5 (1-1.5) R]	B064578	1.13	50.0	12/14/12
12L0189-17 [T-GP-7 (0-1) R]	B064578	1.14	50.0	12/14/12
12L0189-18 [T-GP-7 (1-2.5) R]	B064578	1.08	50.0	12/14/12
12L0189-19 [T-GP-8 (0-1) R]	B064578	1.12	50.0	12/14/12
12L0189-23 [T-GP-10 (0-1) R]	B064578	1.03	50.0	12/14/12
12L0189-57 [T-GP-18 (0-1) R]	B064578	1.14	50.0	12/14/12
12L0189-58 [T-GP-19 (0-1) R]	B064578	1.19	50.0	12/14/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0189-05 [T-GP-2 (2-6)]	B064700	1.49	50.0	12/15/12
12L0189-10 [T-GP-4 (0-1)]	B064700	1.20	50.0	12/15/12
12L0189-12 [T-GP-5 (0-1)]	B064700	1.19	50.0	12/15/12
12L0189-15 [T-GP-6 (0-1)]	B064700	1.01	50.0	12/15/12
12L0189-21 [T-GP-9 (0-1)]	B064700	1.08	50.0	12/15/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064277 - SW-846 3540C											
Blank (B064277-BLK1)				Prepared: 12/07/12 Analyzed: 12/10/12							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		84.8		30-150			
Surrogate: Tetrachloro-m-xylene	*0.152*		mg/Kg wet	0.200		76.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.152*		mg/Kg wet	0.200		75.8		30-150			
LCS (B064277-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12							
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		107		40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg wet	0.200		**149**	*	40-140			L-07, V-06
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		116		40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		121		40-140			
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		102		30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.200		84.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.200		83.2		30-150			
LCS Dup (B064277-BSD1)				Prepared: 12/07/12 Analyzed: 12/10/12							
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		90.4		40-140	16.8	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg wet	0.200		127		40-140	15.9	30	V-06
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		99.8		40-140	14.9	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		103		40-140	15.8	30	
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg wet	0.200		80.9		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.135*		mg/Kg wet	0.200		67.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.134*		mg/Kg wet	0.200		66.9		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064356 - SW-846 3540C										
Blank (B064356-BLK1)				Prepared: 12/10/12 Analyzed: 12/11/12						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS (B064356-BS1)				Prepared: 12/10/12 Analyzed: 12/11/12						
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		90.7	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg wet	0.200		100	30-150			
LCS Dup (B064356-BSD1)				Prepared: 12/10/12 Analyzed: 12/11/12						
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		92.5	40-140	1.91	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	0.0583	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		98.4	40-140	2.60	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		105	40-140	3.84	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064356 - SW-846 3540C										
Matrix Spike (B064356-MS1)		**Source: 12L0189-09**		Prepared: 12/10/12 Analyzed: 12/11/12						
Aroclor-1016	0.23	0.11	mg/Kg dry	0.218	0.0	105	40-140			
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.218	0.0	112	40-140			
Aroclor-1260	0.22	0.11	mg/Kg dry	0.218	0.0	102	40-140			
Aroclor-1260 [2C]	0.24	0.11	mg/Kg dry	0.218	0.0	111	40-140			
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg dry	0.218		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.218		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg dry	0.218		98.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.222*		mg/Kg dry	0.218		102	30-150			
Matrix Spike Dup (B064356-MSD1)		**Source: 12L0189-09**		Prepared: 12/10/12 Analyzed: 12/12/12						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.218	0.0	98.2	40-140	6.81	50	
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.218	0.0	106	40-140	4.80	50	
Aroclor-1260	0.22	0.11	mg/Kg dry	0.218	0.0	101	40-140	0.981	50	
Aroclor-1260 [2C]	0.24	0.11	mg/Kg dry	0.218	0.0	109	40-140	2.17	50	
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg dry	0.218		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.215*		mg/Kg dry	0.218		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg dry	0.218		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.204*		mg/Kg dry	0.218		93.3	30-150			
Batch B064489 - SW-846 3540C										
Blank (B064489-BLK1)				Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg wet	0.200		92.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064489 - SW-846 3540C											
LCS (B064489-BS1)				Prepared: 12/12/12 Analyzed: 12/13/12							
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		103		40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		108		40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101		40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		104		40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg wet	0.200		99.9		30-150			
LCS Dup (B064489-BSD1)				Prepared: 12/12/12 Analyzed: 12/13/12							
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105		40-140	1.89	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109		40-140	1.29	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		103		40-140	1.85	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107		40-140	2.35	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		93.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		95.2		30-150			
Matrix Spike (B064489-MS1)		**Source: 12L0189-13**		Prepared: 12/12/12 Analyzed: 12/13/12							
Aroclor-1016	0.30	0.12	mg/Kg dry	0.249	0.0	121		40-140			
Aroclor-1016 [2C]	0.30	0.12	mg/Kg dry	0.249	0.0	122		40-140			
Aroclor-1260	0.34	0.12	mg/Kg dry	0.249	0.0	138		40-140			
Aroclor-1260 [2C]	0.37	0.12	mg/Kg dry	0.249	0.0	**150**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg dry	0.249		85.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.225*		mg/Kg dry	0.249		90.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.234*		mg/Kg dry	0.249		94.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.223*		mg/Kg dry	0.249		89.6		30-150			
Matrix Spike Dup (B064489-MSD1)		**Source: 12L0189-13**		Prepared: 12/12/12 Analyzed: 12/13/12							
Aroclor-1016	0.30	0.12	mg/Kg dry	0.249	0.0	121		40-140	0.267	50	
Aroclor-1016 [2C]	0.24	0.12	mg/Kg dry	0.249	0.0	96.1		40-140	24.0	50	
Aroclor-1260	0.48	0.12	mg/Kg dry	0.249	0.0	**193**	*	40-140	32.7	50	MS-21
Aroclor-1260 [2C]	0.50	0.12	mg/Kg dry	0.249	0.0	**201**	*	40-140	29.1	50	MS-21
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg dry	0.249		83.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg dry	0.249		88.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.227*		mg/Kg dry	0.249		91.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg dry	0.249		88.8		30-150			
Batch B064491 - SW-846 3540C											
Blank (B064491-BLK1)				Prepared: 12/12/12 Analyzed: 12/13/12							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064491 - SW-846 3540C										
Blank (B064491-BLK1)				Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B064491-BS1)				Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		117	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Surrogate: Decachlorobiphenyl	*0.187*		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
LCS Dup (B064491-BSD1)				Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1016	0.26	0.10	mg/Kg wet	0.200		128	40-140	13.0	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg wet	0.200		126	40-140	12.5	30	
Aroclor-1260	0.26	0.10	mg/Kg wet	0.200		132	40-140	12.4	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg wet	0.200		124	40-140	13.2	30	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg wet	0.200		98.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.205*		mg/Kg wet	0.200		102	30-150			
Matrix Spike (B064491-MS1)		**Source: 12L0189-58**		Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1016	0.31	0.13	mg/Kg dry	0.256	0.0	122	40-140			
Aroclor-1016 [2C]	0.31	0.13	mg/Kg dry	0.256	0.0	120	40-140			
Aroclor-1260	0.32	0.13	mg/Kg dry	0.256	0.0	123	40-140			
Aroclor-1260 [2C]	0.31	0.13	mg/Kg dry	0.256	0.0	119	40-140			
Surrogate: Decachlorobiphenyl	*0.278*		mg/Kg dry	0.256		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.254*		mg/Kg dry	0.256		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.264*		mg/Kg dry	0.256		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.274*		mg/Kg dry	0.256		107	30-150			
Matrix Spike Dup (B064491-MSD1)		**Source: 12L0189-58**		Prepared: 12/12/12 Analyzed: 12/13/12						
Aroclor-1016	0.29	0.13	mg/Kg dry	0.256	0.0	114	40-140	6.78	50	
Aroclor-1016 [2C]	0.29	0.13	mg/Kg dry	0.256	0.0	112	40-140	6.57	50	
Aroclor-1260	0.30	0.13	mg/Kg dry	0.256	0.0	117	40-140	5.31	50	
Aroclor-1260 [2C]	0.28	0.13	mg/Kg dry	0.256	0.0	109	40-140	8.40	50	
Surrogate: Decachlorobiphenyl	*0.247*		mg/Kg dry	0.256		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg dry	0.256		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.238*		mg/Kg dry	0.256		93.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.248*		mg/Kg dry	0.256		96.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064255 - SW-846 3546										
Blank (B064255-BLK1)				Prepared: 12/07/12 Analyzed: 12/11/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.59*		mg/Kg wet	4.99		72.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.64*		mg/Kg wet	5.00		72.8	40-140			
Surrogate: 2-Bromonaphthalene	*3.68*		mg/Kg wet	5.00		73.5	40-140			
Surrogate: 2-Fluorobiphenyl	*4.28*		mg/Kg wet	5.00		85.5	40-140			
LCS (B064255-BS1)				Prepared: 12/07/12 Analyzed: 12/11/12						
Acenaphthene	3.06	0.10	mg/Kg wet	5.00		61.1	40-140			
Acenaphthylene	3.03	0.10	mg/Kg wet	5.00		60.5	40-140			
Anthracene	3.51	0.10	mg/Kg wet	5.00		70.2	40-140			
Benzo(a)anthracene	3.70	0.10	mg/Kg wet	5.00		74.0	40-140			
Benzo(a)pyrene	3.43	0.10	mg/Kg wet	5.00		68.6	40-140			
Benzo(b)fluoranthene	3.65	0.10	mg/Kg wet	5.00		73.0	40-140			
Benzo(g,h,i)perylene	3.73	0.10	mg/Kg wet	5.00		74.6	40-140			
Benzo(k)fluoranthene	3.59	0.10	mg/Kg wet	5.00		71.9	40-140			
Chrysene	3.46	0.10	mg/Kg wet	5.00		69.2	40-140			
Dibenz(a,h)anthracene	3.77	0.10	mg/Kg wet	5.00		75.3	40-140			
Fluoranthene	3.58	0.10	mg/Kg wet	5.00		71.7	40-140			
Fluorene	3.22	0.10	mg/Kg wet	5.00		64.5	40-140			
Indeno(1,2,3-cd)pyrene	3.72	0.10	mg/Kg wet	5.00		74.4	40-140			
2-Methylnaphthalene	3.02	0.10	mg/Kg wet	5.00		60.3	40-140			
Naphthalene	2.75	0.10	mg/Kg wet	5.00		55.1	40-140			
Phenanthrene	3.47	0.10	mg/Kg wet	5.00		69.5	40-140			
Pyrene	3.49	0.10	mg/Kg wet	5.00		69.7	40-140			
n-Decane	2.10	0.10	mg/Kg wet	5.00		41.9	40-140			
n-Docosane	3.68	0.10	mg/Kg wet	5.00		73.6	40-140			
n-Dodecane	2.66	0.10	mg/Kg wet	5.00		53.1	40-140			
n-Eicosane	3.71	0.10	mg/Kg wet	5.00		74.1	40-140			
n-Hexacosane	3.52	0.10	mg/Kg wet	5.00		70.4	40-140			
n-Hexadecane	3.37	0.10	mg/Kg wet	5.00		67.4	40-140			
n-Hexatriacontane	3.44	0.10	mg/Kg wet	5.00		68.7	40-140			
n-Nonadecane	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064255 - SW-846 3546											
LCS (B064255-BS1)				Prepared: 12/07/12 Analyzed: 12/11/12							
n-Nonane	1.43	0.10	mg/Kg wet	5.00		**28.6**	*	30-140			L-07
n-Octacosane	3.40	0.10	mg/Kg wet	5.00		68.0		40-140			
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		72.9		40-140			
n-Tetracosane	3.62	0.10	mg/Kg wet	5.00		72.3		40-140			
n-Tetradecane	2.98	0.10	mg/Kg wet	5.00		59.6		40-140			
n-Triacontane	3.39	0.10	mg/Kg wet	5.00		67.8		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.54*		mg/Kg wet	4.99		71.0		40-140			
Surrogate: o-Terphenyl (OTP)	*3.43*		mg/Kg wet	5.00		68.6		40-140			
Surrogate: 2-Bromonaphthalene	*3.49*		mg/Kg wet	5.00		69.9		40-140			
Surrogate: 2-Fluorobiphenyl	*4.18*		mg/Kg wet	5.00		83.6		40-140			
LCS Dup (B064255-BSD1)				Prepared: 12/07/12 Analyzed: 12/11/12							
Acenaphthene	3.33	0.10	mg/Kg wet	5.00		66.7		40-140	8.70	25	
Acenaphthylene	3.32	0.10	mg/Kg wet	5.00		66.4		40-140	9.28	25	
Anthracene	3.70	0.10	mg/Kg wet	5.00		74.0		40-140	5.24	25	
Benzo(a)anthracene	3.89	0.10	mg/Kg wet	5.00		77.9		40-140	5.01	25	
Benzo(a)pyrene	3.61	0.10	mg/Kg wet	5.00		72.3		40-140	5.20	25	
Benzo(b)fluoranthene	3.83	0.10	mg/Kg wet	5.00		76.6		40-140	4.75	25	
Benzo(g,h,i)perylene	3.89	0.10	mg/Kg wet	5.00		77.7		40-140	4.09	25	
Benzo(k)fluoranthene	3.81	0.10	mg/Kg wet	5.00		76.3		40-140	5.94	25	
Chrysene	3.65	0.10	mg/Kg wet	5.00		72.9		40-140	5.33	25	
Dibenz(a,h)anthracene	3.96	0.10	mg/Kg wet	5.00		79.2		40-140	5.05	25	
Fluoranthene	3.75	0.10	mg/Kg wet	5.00		75.0		40-140	4.59	25	
Fluorene	3.47	0.10	mg/Kg wet	5.00		69.4		40-140	7.34	25	
Indeno(1,2,3-cd)pyrene	3.90	0.10	mg/Kg wet	5.00		78.0		40-140	4.62	25	
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.8		40-140	10.2	25	
Naphthalene	3.08	0.10	mg/Kg wet	5.00		61.6		40-140	11.2	25	
Phenanthrene	3.68	0.10	mg/Kg wet	5.00		73.5		40-140	5.69	25	
Pyrene	3.65	0.10	mg/Kg wet	5.00		73.0		40-140	4.59	25	
n-Decane	2.35	0.10	mg/Kg wet	5.00		47.0		40-140	11.4	25	
n-Docosane	3.97	0.10	mg/Kg wet	5.00		79.4		40-140	7.65	25	
n-Dodecane	3.01	0.10	mg/Kg wet	5.00		60.1		40-140	12.4	25	
n-Eicosane	4.02	0.10	mg/Kg wet	5.00		80.4		40-140	8.12	25	
n-Hexacosane	3.80	0.10	mg/Kg wet	5.00		76.0		40-140	7.62	25	
n-Hexadecane	3.73	0.10	mg/Kg wet	5.00		74.5		40-140	10.0	25	
n-Hexatriacontane	3.75	0.10	mg/Kg wet	5.00		74.9		40-140	8.58	25	
n-Nonadecane	3.88	0.10	mg/Kg wet	5.00		77.7		40-140	7.86	25	
n-Nonane	1.60	0.10	mg/Kg wet	5.00		31.9		30-140	11.1	25	
n-Octacosane	3.67	0.10	mg/Kg wet	5.00		73.4		40-140	7.59	25	
n-Octadecane	3.97	0.10	mg/Kg wet	5.00		79.3		40-140	8.45	25	
n-Tetracosane	3.90	0.10	mg/Kg wet	5.00		77.9		40-140	7.45	25	
n-Tetradecane	3.37	0.10	mg/Kg wet	5.00		67.3		40-140	12.2	25	
n-Triacontane	3.67	0.10	mg/Kg wet	5.00		73.4		40-140	8.05	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.72*		mg/Kg wet	4.99		74.5		40-140			
Surrogate: o-Terphenyl (OTP)	*3.49*		mg/Kg wet	5.00		69.8		40-140			
Surrogate: 2-Bromonaphthalene	*3.59*		mg/Kg wet	5.00		71.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.16*		mg/Kg wet	5.00		83.1		40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064255 - SW-846 3546											
Matrix Spike (B064255-MS1)		**Source: 12L0189-04**		Prepared: 12/07/12 Analyzed: 12/11/12							
C9-C18 Aliphatics	39.1	14	mg/Kg dry	42.3	13.5	60.6		40-140			
C19-C36 Aliphatics	147	14	mg/Kg dry	56.4	99.3	83.8		40-140			
Unadjusted C11-C22 Aromatics	181	14	mg/Kg dry	120	115	54.9		40-140			
Acenaphthene	4.10	0.14	mg/Kg dry	7.05	0.108	56.7		40-140			
Acenaphthylene	3.92	0.14	mg/Kg dry	7.05	0.211	52.7		40-140			
Anthracene	4.29	0.14	mg/Kg dry	7.05	0.308	56.4		40-140			
Benzo(a)anthracene	5.22	0.14	mg/Kg dry	7.05	1.50	52.8		40-140			
Benzo(a)pyrene	6.08	0.14	mg/Kg dry	7.05	1.94	58.7		40-140			
Benzo(b)fluoranthene	5.64	0.14	mg/Kg dry	7.05	2.53	44.1		40-140			
Benzo(g,h,i)perylene	4.16	0.14	mg/Kg dry	7.05	1.10	43.3		40-140			
Benzo(k)fluoranthene	4.40	0.14	mg/Kg dry	7.05	0.939	49.1		40-140			
Chrysene	5.03	0.14	mg/Kg dry	7.05	1.79	46.0		40-140			
Dibenz(a,h)anthracene	3.64	0.14	mg/Kg dry	7.05	0.324	47.1		40-140			
Fluoranthene	5.87	0.14	mg/Kg dry	7.05	2.31	50.6		40-140			
Fluorene	4.23	0.14	mg/Kg dry	7.05	0.131	58.2		40-140			
Indeno(1,2,3-cd)pyrene	4.36	0.14	mg/Kg dry	7.05	1.29	43.6		40-140			
2-Methylnaphthalene	4.02	0.14	mg/Kg dry	7.05	0.120	55.3		40-140			
Naphthalene	3.73	0.14	mg/Kg dry	7.05	0.242	49.4		40-140			
Phenanthrene	4.91	0.14	mg/Kg dry	7.05	0.927	56.6		40-140			
Pyrene	6.05	0.14	mg/Kg dry	7.05	2.67	48.1		40-140			
n-Nonane	2.31	0.14	mg/Kg dry	7.05	0.00	32.8		30-140			
Surrogate: Chlorooctadecane (COD)	*4.51*		mg/Kg dry	7.03		64.1		40-140			
Surrogate: o-Terphenyl (OTP)	*4.14*		mg/Kg dry	7.05		58.7		40-140			
Surrogate: 2-Bromonaphthalene	*5.11*		mg/Kg dry	7.05		72.6		40-140			
Surrogate: 2-Fluorobiphenyl	*6.07*		mg/Kg dry	7.05		86.2		40-140			
Matrix Spike Dup (B064255-MSD1)		**Source: 12L0189-04**		Prepared: 12/07/12 Analyzed: 12/11/12							
C9-C18 Aliphatics	34.3	14	mg/Kg dry	41.9	13.5	49.7		40-140	13.1	50	
C19-C36 Aliphatics	161	14	mg/Kg dry	55.8	99.3	110		40-140	9.25	50	
Unadjusted C11-C22 Aromatics	186	14	mg/Kg dry	119	115	60.1		40-140	3.01	50	
Acenaphthene	3.81	0.14	mg/Kg dry	6.98	0.108	53.1		40-140	7.33	50	
Acenaphthylene	3.69	0.14	mg/Kg dry	6.98	0.211	49.9		40-140	6.02	50	
Anthracene	4.10	0.14	mg/Kg dry	6.98	0.308	54.4		40-140	4.41	50	
Benzo(a)anthracene	5.31	0.14	mg/Kg dry	6.98	1.50	54.7		40-140	1.83	50	
Benzo(a)pyrene	6.51	0.14	mg/Kg dry	6.98	1.94	65.6		40-140	6.94	50	
Benzo(b)fluoranthene	5.97	0.14	mg/Kg dry	6.98	2.53	49.3		40-140	5.74	50	
Benzo(g,h,i)perylene	4.48	0.14	mg/Kg dry	6.98	1.10	48.4		40-140	7.48	50	
Benzo(k)fluoranthene	4.53	0.14	mg/Kg dry	6.98	0.939	51.5		40-140	2.92	50	
Chrysene	5.14	0.14	mg/Kg dry	6.98	1.79	48.0		40-140	2.22	50	
Dibenz(a,h)anthracene	3.74	0.14	mg/Kg dry	6.98	0.324	49.0		40-140	2.68	50	
Fluoranthene	6.03	0.14	mg/Kg dry	6.98	2.31	53.4		40-140	2.78	50	
Fluorene	3.95	0.14	mg/Kg dry	6.98	0.131	54.7		40-140	6.98	50	
Indeno(1,2,3-cd)pyrene	4.74	0.14	mg/Kg dry	6.98	1.29	49.5		40-140	8.51	50	
2-Methylnaphthalene	3.76	0.14	mg/Kg dry	6.98	0.120	52.1		40-140	6.73	50	
Naphthalene	3.51	0.14	mg/Kg dry	6.98	0.242	46.9		40-140	5.86	50	
Phenanthrene	4.86	0.14	mg/Kg dry	6.98	0.927	56.4		40-140	1.04	50	
Pyrene	6.29	0.14	mg/Kg dry	6.98	2.67	52.0		40-140	3.88	50	
n-Nonane	1.84	0.14	mg/Kg dry	6.98	0.00	**26.4**	*	30-140	22.8	50	MS-22
Surrogate: Chlorooctadecane (COD)	*4.08*		mg/Kg dry	6.96		58.5		40-140			
Surrogate: o-Terphenyl (OTP)	*3.72*		mg/Kg dry	6.98		53.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.61*		mg/Kg dry	6.98		66.1		40-140			
Surrogate: 2-Fluorobiphenyl	*5.58*		mg/Kg dry	6.98		79.9		40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064285 - SW-846 3546										
Blank (B064285-BLK1)				Prepared: 12/07/12 Analyzed: 12/11/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.99*		mg/Kg wet	4.99		80.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.96*		mg/Kg wet	5.00		79.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.79*		mg/Kg wet	5.00		75.9	40-140			
Surrogate: 2-Fluorobiphenyl	*4.43*		mg/Kg wet	5.00		88.5	40-140			
LCS (B064285-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Acenaphthene	3.23	0.10	mg/Kg wet	5.00		64.7	40-140			
Acenaphthylene	3.21	0.10	mg/Kg wet	5.00		64.1	40-140			
Anthracene	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
Benzo(a)anthracene	3.74	0.10	mg/Kg wet	5.00		74.8	40-140			
Benzo(a)pyrene	3.58	0.10	mg/Kg wet	5.00		71.5	40-140			
Benzo(b)fluoranthene	3.71	0.10	mg/Kg wet	5.00		74.3	40-140			
Benzo(g,h,i)perylene	3.98	0.10	mg/Kg wet	5.00		79.6	40-140			
Benzo(k)fluoranthene	3.73	0.10	mg/Kg wet	5.00		74.7	40-140			
Chrysene	3.54	0.10	mg/Kg wet	5.00		70.7	40-140			
Dibenz(a,h)anthracene	4.05	0.10	mg/Kg wet	5.00		81.0	40-140			
Fluoranthene	3.61	0.10	mg/Kg wet	5.00		72.1	40-140			
Fluorene	3.41	0.10	mg/Kg wet	5.00		68.2	40-140			
Indeno(1,2,3-cd)pyrene	3.99	0.10	mg/Kg wet	5.00		79.9	40-140			
2-Methylnaphthalene	3.08	0.10	mg/Kg wet	5.00		61.6	40-140			
Naphthalene	2.84	0.10	mg/Kg wet	5.00		56.9	40-140			
Phenanthrene	3.55	0.10	mg/Kg wet	5.00		71.0	40-140			
Pyrene	3.53	0.10	mg/Kg wet	5.00		70.7	40-140			
n-Decane	2.31	0.10	mg/Kg wet	5.00		46.2	40-140			
n-Docosane	3.89	0.10	mg/Kg wet	5.00		77.7	40-140			
n-Dodecane	2.79	0.10	mg/Kg wet	5.00		55.8	40-140			
n-Eicosane	3.77	0.10	mg/Kg wet	5.00		75.5	40-140			
n-Hexacosane	3.79	0.10	mg/Kg wet	5.00		75.8	40-140			
n-Hexadecane	3.42	0.10	mg/Kg wet	5.00		68.4	40-140			
n-Hexatriacontane	3.56	0.10	mg/Kg wet	5.00		71.1	40-140			
n-Nonadecane	3.79	0.10	mg/Kg wet	5.00		75.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064285 - SW-846 3546										
LCS (B064285-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12						
n-Nonane	1.72	0.10	mg/Kg wet	5.00		34.4	30-140			
n-Octacosane	3.63	0.10	mg/Kg wet	5.00		72.5	40-140			
n-Octadecane	3.72	0.10	mg/Kg wet	5.00		74.4	40-140			
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.6	40-140			
n-Tetradecane	3.14	0.10	mg/Kg wet	5.00		62.8	40-140			
n-Triacontane	3.69	0.10	mg/Kg wet	5.00		73.8	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.61*		mg/Kg wet	4.99		72.4	40-140			
Surrogate: o-Terphenyl (OTP)	*3.61*		mg/Kg wet	5.00		72.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.47*		mg/Kg wet	5.00		69.4	40-140			
Surrogate: 2-Fluorobiphenyl	*4.19*		mg/Kg wet	5.00		83.9	40-140			
LCS Dup (B064285-BSD1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Acenaphthene	3.29	0.10	mg/Kg wet	5.00		65.7	40-140	1.61	25	
Acenaphthylene	3.25	0.10	mg/Kg wet	5.00		65.0	40-140	1.38	25	
Anthracene	3.43	0.10	mg/Kg wet	5.00		68.7	40-140	4.52	25	
Benzo(a)anthracene	3.53	0.10	mg/Kg wet	5.00		70.6	40-140	5.76	25	
Benzo(a)pyrene	3.38	0.10	mg/Kg wet	5.00		67.6	40-140	5.60	25	
Benzo(b)fluoranthene	3.50	0.10	mg/Kg wet	5.00		69.9	40-140	5.99	25	
Benzo(g,h,i)perylene	3.78	0.10	mg/Kg wet	5.00		75.6	40-140	5.21	25	
Benzo(k)fluoranthene	3.52	0.10	mg/Kg wet	5.00		70.4	40-140	5.98	25	
Chrysene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	5.72	25	
Dibenz(a,h)anthracene	3.91	0.10	mg/Kg wet	5.00		78.3	40-140	3.41	25	
Fluoranthene	3.41	0.10	mg/Kg wet	5.00		68.3	40-140	5.50	25	
Fluorene	3.38	0.10	mg/Kg wet	5.00		67.6	40-140	0.866	25	
Indeno(1,2,3-cd)pyrene	3.80	0.10	mg/Kg wet	5.00		76.1	40-140	4.86	25	
2-Methylnaphthalene	3.19	0.10	mg/Kg wet	5.00		63.8	40-140	3.38	25	
Naphthalene	2.96	0.10	mg/Kg wet	5.00		59.2	40-140	3.95	25	
Phenanthrene	3.42	0.10	mg/Kg wet	5.00		68.5	40-140	3.56	25	
Pyrene	3.34	0.10	mg/Kg wet	5.00		66.7	40-140	5.73	25	
n-Decane	2.38	0.10	mg/Kg wet	5.00		47.7	40-140	3.09	25	
n-Docosane	3.67	0.10	mg/Kg wet	5.00		73.4	40-140	5.71	25	
n-Dodecane	2.90	0.10	mg/Kg wet	5.00		58.1	40-140	4.05	25	
n-Eicosane	3.62	0.10	mg/Kg wet	5.00		72.4	40-140	4.20	25	
n-Hexacosane	3.61	0.10	mg/Kg wet	5.00		72.2	40-140	4.87	25	
n-Hexadecane	3.41	0.10	mg/Kg wet	5.00		68.2	40-140	0.281	25	
n-Hexatriacontane	3.44	0.10	mg/Kg wet	5.00		68.8	40-140	3.28	25	
n-Nonadecane	3.64	0.10	mg/Kg wet	5.00		72.7	40-140	4.03	25	
n-Nonane	1.67	0.10	mg/Kg wet	5.00		33.4	30-140	2.87	25	
n-Octacosane	3.45	0.10	mg/Kg wet	5.00		69.0	40-140	4.95	25	
n-Octadecane	3.60	0.10	mg/Kg wet	5.00		72.0	40-140	3.28	25	
n-Tetracosane	3.64	0.10	mg/Kg wet	5.00		72.8	40-140	5.06	25	
n-Tetradecane	3.22	0.10	mg/Kg wet	5.00		64.3	40-140	2.42	25	
n-Triacontane	3.52	0.10	mg/Kg wet	5.00		70.3	40-140	4.77	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.33*		mg/Kg wet	4.99		66.8	40-140			
Surrogate: o-Terphenyl (OTP)	*3.36*		mg/Kg wet	5.00		67.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.73*		mg/Kg wet	5.00		74.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4.43*		mg/Kg wet	5.00		88.6	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064285 - SW-846 3546											
Matrix Spike (B064285-MS1)		**Source: 12L0189-41**		Prepared: 12/07/12 Analyzed: 12/11/12							
C9-C18 Aliphatics	31.2	24	mg/Kg dry	36.4	18.0	**36.2**	*	40-140			MS-09, MS-22
C19-C36 Aliphatics	118	24	mg/Kg dry	48.6	81.0	76.0		40-140			
Unadjusted C11-C22 Aromatics	199	24	mg/Kg dry	103	107	89.5		40-140			
Acenaphthene	3.62	0.24	mg/Kg dry	6.07	0.00	59.7		40-140			
Acenaphthylene	3.54	0.24	mg/Kg dry	6.07	0.00	58.3		40-140			
Anthracene	3.76	0.24	mg/Kg dry	6.07	0.00	61.9		40-140			
Benzo(a)anthracene	4.60	0.24	mg/Kg dry	6.07	0.522	67.1		40-140			
Benzo(a)pyrene	4.02	0.24	mg/Kg dry	6.07	0.514	57.7		40-140			
Benzo(b)fluoranthene	4.71	0.24	mg/Kg dry	6.07	0.802	64.2		40-140			
Benzo(g,h,i)perylene	3.72	0.24	mg/Kg dry	6.07	0.450	53.8		40-140			
Benzo(k)fluoranthene	3.97	0.24	mg/Kg dry	6.07	0.300	60.4		40-140			
Chrysene	4.46	0.24	mg/Kg dry	6.07	0.662	62.5		40-140			
Dibenz(a,h)anthracene	3.63	0.24	mg/Kg dry	6.07	0.00	59.7		40-140			
Fluoranthene	5.33	0.24	mg/Kg dry	6.07	0.889	73.2		40-140			
Fluorene	3.76	0.24	mg/Kg dry	6.07	0.00	61.9		40-140			
Indeno(1,2,3-cd)pyrene	3.83	0.24	mg/Kg dry	6.07	0.396	56.6		40-140			
2-Methylnaphthalene	3.25	0.24	mg/Kg dry	6.07	0.00	53.4		40-140			
Naphthalene	2.88	0.24	mg/Kg dry	6.07	0.00	47.3		40-140			
Phenanthrene	4.09	0.24	mg/Kg dry	6.07	0.382	61.0		40-140			
Pyrene	5.27	0.24	mg/Kg dry	6.07	0.938	71.3		40-140			
n-Nonane	1.63	0.24	mg/Kg dry	6.07	0.00	**26.9**	*	30-140			MS-09
Surrogate: Chlorooctadecane (COD)	*3.32*		mg/Kg dry	6.06		54.8		40-140			
Surrogate: o-Terphenyl (OTP)	*3.61*		mg/Kg dry	6.07		59.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.43*		mg/Kg dry	6.07		73.0		40-140			
Surrogate: 2-Fluorobiphenyl	*5.20*		mg/Kg dry	6.07		85.5		40-140			
Matrix Spike Dup (B064285-MSD1)		**Source: 12L0189-41**		Prepared: 12/07/12 Analyzed: 12/11/12							
C9-C18 Aliphatics	38.7	24	mg/Kg dry	36.6	18.0	56.6		40-140	21.5	50	MS-09
C19-C36 Aliphatics	130	24	mg/Kg dry	48.8	81.0	101		40-140	9.87	50	
Unadjusted C11-C22 Aromatics	241	24	mg/Kg dry	104	107	130		40-140	19.1	50	
Acenaphthene	3.99	0.24	mg/Kg dry	6.10	0.00	65.4		40-140	9.73	50	
Acenaphthylene	3.88	0.24	mg/Kg dry	6.10	0.00	63.6		40-140	9.17	50	
Anthracene	4.27	0.24	mg/Kg dry	6.10	0.00	70.0		40-140	12.7	50	
Benzo(a)anthracene	4.98	0.24	mg/Kg dry	6.10	0.522	73.0		40-140	7.97	50	
Benzo(a)pyrene	4.49	0.24	mg/Kg dry	6.10	0.514	65.2		40-140	11.1	50	
Benzo(b)fluoranthene	5.11	0.24	mg/Kg dry	6.10	0.802	70.5		40-140	8.18	50	
Benzo(g,h,i)perylene	4.56	0.24	mg/Kg dry	6.10	0.450	67.4		40-140	20.5	50	
Benzo(k)fluoranthene	4.36	0.24	mg/Kg dry	6.10	0.300	66.6		40-140	9.47	50	
Chrysene	4.84	0.24	mg/Kg dry	6.10	0.662	68.5		40-140	8.26	50	
Dibenz(a,h)anthracene	4.28	0.24	mg/Kg dry	6.10	0.00	70.2		40-140	16.6	50	
Fluoranthene	5.59	0.24	mg/Kg dry	6.10	0.889	77.0		40-140	4.68	50	
Fluorene	4.18	0.24	mg/Kg dry	6.10	0.00	68.5		40-140	10.7	50	
Indeno(1,2,3-cd)pyrene	4.43	0.24	mg/Kg dry	6.10	0.396	66.1		40-140	14.4	50	
2-Methylnaphthalene	3.66	0.24	mg/Kg dry	6.10	0.00	60.0		40-140	12.1	50	
Naphthalene	3.18	0.24	mg/Kg dry	6.10	0.00	52.0		40-140	9.91	50	
Phenanthrene	4.80	0.24	mg/Kg dry	6.10	0.382	72.4		40-140	16.0	50	
Pyrene	5.56	0.24	mg/Kg dry	6.10	0.938	75.7		40-140	5.44	50	
n-Nonane	1.66	0.24	mg/Kg dry	6.10	0.00	**27.2**	*	30-140	1.62	50	MS-09
Surrogate: Chlorooctadecane (COD)	*3.63*		mg/Kg dry	6.09		59.6		40-140			
Surrogate: o-Terphenyl (OTP)	*3.98*		mg/Kg dry	6.10		65.3		40-140			
Surrogate: 2-Bromonaphthalene	*4.41*		mg/Kg dry	6.10		72.2		40-140			
Surrogate: 2-Fluorobiphenyl	*5.39*		mg/Kg dry	6.10		88.2		40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064302 - SW-846 3546										
Blank (B064302-BLK1)				Prepared: 12/10/12 Analyzed: 12/12/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.85*		mg/Kg wet	4.99		77.2	40-140			
Surrogate: o-Terphenyl (OTP)	*3.26*		mg/Kg wet	5.00		65.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.28*		mg/Kg wet	5.00		65.6	40-140			
Surrogate: 2-Fluorobiphenyl	*3.66*		mg/Kg wet	5.00		73.1	40-140			
LCS (B064302-BS1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Acenaphthene	3.42	0.10	mg/Kg wet	5.00		68.4	40-140			
Acenaphthylene	3.40	0.10	mg/Kg wet	5.00		68.0	40-140			
Anthracene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140			
Benzo(a)anthracene	3.62	0.10	mg/Kg wet	5.00		72.5	40-140			
Benzo(a)pyrene	3.35	0.10	mg/Kg wet	5.00		67.0	40-140			
Benzo(b)fluoranthene	3.60	0.10	mg/Kg wet	5.00		71.9	40-140			
Benzo(g,h,i)perylene	3.64	0.10	mg/Kg wet	5.00		72.7	40-140			
Benzo(k)fluoranthene	3.49	0.10	mg/Kg wet	5.00		69.9	40-140			
Chrysene	3.35	0.10	mg/Kg wet	5.00		67.1	40-140			
Dibenz(a,h)anthracene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140			
Fluoranthene	3.60	0.10	mg/Kg wet	5.00		72.0	40-140			
Fluorene	3.51	0.10	mg/Kg wet	5.00		70.3	40-140			
Indeno(1,2,3-cd)pyrene	3.65	0.10	mg/Kg wet	5.00		73.1	40-140			
2-Methylnaphthalene	3.40	0.10	mg/Kg wet	5.00		68.1	40-140			
Naphthalene	3.12	0.10	mg/Kg wet	5.00		62.4	40-140			
Phenanthrene	3.63	0.10	mg/Kg wet	5.00		72.7	40-140			
Pyrene	3.50	0.10	mg/Kg wet	5.00		70.0	40-140			
n-Decane	2.96	0.10	mg/Kg wet	5.00		59.1	40-140			
n-Docosane	4.29	0.10	mg/Kg wet	5.00		85.8	40-140			
n-Dodecane	3.53	0.10	mg/Kg wet	5.00		70.6	40-140			
n-Eicosane	4.40	0.10	mg/Kg wet	5.00		87.9	40-140			
n-Hexacosane	4.08	0.10	mg/Kg wet	5.00		81.7	40-140			
n-Hexadecane	4.30	0.10	mg/Kg wet	5.00		86.0	40-140			
n-Hexatriacontane	3.99	0.10	mg/Kg wet	5.00		79.8	40-140			
n-Nonadecane	4.31	0.10	mg/Kg wet	5.00		86.3	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064302 - SW-846 3546										
LCS (B064302-BS1)				Prepared: 12/10/12 Analyzed: 12/12/12						
n-Nonane	2.32	0.10	mg/Kg wet	5.00		46.5	30-140			
n-Octacosane	3.94	0.10	mg/Kg wet	5.00		78.9	40-140			
n-Octadecane	4.43	0.10	mg/Kg wet	5.00		88.5	40-140			
n-Tetracosane	4.20	0.10	mg/Kg wet	5.00		83.9	40-140			
n-Tetradecane	3.95	0.10	mg/Kg wet	5.00		79.0	40-140			
n-Triacontane	3.94	0.10	mg/Kg wet	5.00		78.8	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.18*		mg/Kg wet	4.99		83.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.53*		mg/Kg wet	5.00		70.7	40-140			
Surrogate: 2-Bromonaphthalene	*3.41*		mg/Kg wet	5.00		68.2	40-140			
Surrogate: 2-Fluorobiphenyl	*3.74*		mg/Kg wet	5.00		74.8	40-140			
LCS Dup (B064302-BSD1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Acenaphthene	3.52	0.10	mg/Kg wet	5.00		70.5	40-140	3.00	25	
Acenaphthylene	3.49	0.10	mg/Kg wet	5.00		69.8	40-140	2.61	25	
Anthracene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	5.89	25	
Benzo(a)anthracene	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	5.85	25	
Benzo(a)pyrene	3.56	0.10	mg/Kg wet	5.00		71.2	40-140	5.98	25	
Benzo(b)fluoranthene	3.79	0.10	mg/Kg wet	5.00		75.8	40-140	5.26	25	
Benzo(g,h,i)perylene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	5.97	25	
Benzo(k)fluoranthene	3.73	0.10	mg/Kg wet	5.00		74.6	40-140	6.54	25	
Chrysene	3.56	0.10	mg/Kg wet	5.00		71.2	40-140	5.97	25	
Dibenz(a,h)anthracene	3.87	0.10	mg/Kg wet	5.00		77.5	40-140	6.15	25	
Fluoranthene	3.81	0.10	mg/Kg wet	5.00		76.2	40-140	5.64	25	
Fluorene	3.67	0.10	mg/Kg wet	5.00		73.4	40-140	4.42	25	
Indeno(1,2,3-cd)pyrene	3.88	0.10	mg/Kg wet	5.00		77.6	40-140	6.02	25	
2-Methylnaphthalene	3.48	0.10	mg/Kg wet	5.00		69.6	40-140	2.25	25	
Naphthalene	3.18	0.10	mg/Kg wet	5.00		63.7	40-140	2.09	25	
Phenanthrene	3.85	0.10	mg/Kg wet	5.00		77.0	40-140	5.81	25	
Pyrene	3.70	0.10	mg/Kg wet	5.00		74.1	40-140	5.69	25	
n-Decane	2.72	0.10	mg/Kg wet	5.00		54.4	40-140	8.32	25	
n-Docosane	4.24	0.10	mg/Kg wet	5.00		84.9	40-140	1.02	25	
n-Dodecane	3.28	0.10	mg/Kg wet	5.00		65.6	40-140	7.36	25	
n-Eicosane	4.32	0.10	mg/Kg wet	5.00		86.4	40-140	1.74	25	
n-Hexacosane	4.01	0.10	mg/Kg wet	5.00		80.3	40-140	1.76	25	
n-Hexadecane	4.17	0.10	mg/Kg wet	5.00		83.3	40-140	3.13	25	
n-Hexatriacontane	3.91	0.10	mg/Kg wet	5.00		78.2	40-140	2.06	25	
n-Nonadecane	4.22	0.10	mg/Kg wet	5.00		84.5	40-140	2.15	25	
n-Nonane	2.08	0.10	mg/Kg wet	5.00		41.5	30-140	11.2	25	
n-Octacosane	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	2.16	25	
n-Octadecane	4.33	0.10	mg/Kg wet	5.00		86.7	40-140	2.07	25	
n-Tetracosane	4.11	0.10	mg/Kg wet	5.00		82.3	40-140	1.94	25	
n-Tetradecane	3.72	0.10	mg/Kg wet	5.00		74.4	40-140	5.92	25	
n-Triacontane	3.86	0.10	mg/Kg wet	5.00		77.1	40-140	2.17	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.92*		mg/Kg wet	4.99		78.6	40-140			
Surrogate: o-Terphenyl (OTP)	*3.51*		mg/Kg wet	5.00		70.2	40-140			
Surrogate: 2-Bromonaphthalene	*3.54*		mg/Kg wet	5.00		70.8	40-140			
Surrogate: 2-Fluorobiphenyl	*3.98*		mg/Kg wet	5.00		79.6	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064404 - SW-846 3546										
Blank (B064404-BLK1)				Prepared: 12/11/12 Analyzed: 12/12/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.72*		mg/Kg wet	4.99		74.5	40-140			
Surrogate: o-Terphenyl (OTP)	*3.22*		mg/Kg wet	5.00		64.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.55*		mg/Kg wet	5.00		71.1	40-140			
Surrogate: 2-Fluorobiphenyl	*3.93*		mg/Kg wet	5.00		78.6	40-140			
LCS (B064404-BS1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Acenaphthene	3.00	0.10	mg/Kg wet	5.00		59.9	40-140			
Acenaphthylene	2.96	0.10	mg/Kg wet	5.00		59.3	40-140			
Anthracene	3.44	0.10	mg/Kg wet	5.00		68.8	40-140			
Benzo(a)anthracene	3.57	0.10	mg/Kg wet	5.00		71.3	40-140			
Benzo(a)pyrene	3.31	0.10	mg/Kg wet	5.00		66.3	40-140			
Benzo(b)fluoranthene	3.53	0.10	mg/Kg wet	5.00		70.6	40-140			
Benzo(g,h,i)perylene	3.56	0.10	mg/Kg wet	5.00		71.2	40-140			
Benzo(k)fluoranthene	3.47	0.10	mg/Kg wet	5.00		69.3	40-140			
Chrysene	3.32	0.10	mg/Kg wet	5.00		66.4	40-140			
Dibenz(a,h)anthracene	3.63	0.10	mg/Kg wet	5.00		72.6	40-140			
Fluoranthene	3.47	0.10	mg/Kg wet	5.00		69.5	40-140			
Fluorene	3.15	0.10	mg/Kg wet	5.00		62.9	40-140			
Indeno(1,2,3-cd)pyrene	3.61	0.10	mg/Kg wet	5.00		72.3	40-140			
2-Methylnaphthalene	2.96	0.10	mg/Kg wet	5.00		59.1	40-140			
Naphthalene	2.71	0.10	mg/Kg wet	5.00		54.3	40-140			
Phenanthrene	3.40	0.10	mg/Kg wet	5.00		67.9	40-140			
Pyrene	3.38	0.10	mg/Kg wet	5.00		67.7	40-140			
n-Decane	2.41	0.10	mg/Kg wet	5.00		48.2	40-140			
n-Docosane	4.00	0.10	mg/Kg wet	5.00		79.9	40-140			
n-Dodecane	2.90	0.10	mg/Kg wet	5.00		58.0	40-140			
n-Eicosane	4.05	0.10	mg/Kg wet	5.00		81.1	40-140			
n-Hexacosane	3.78	0.10	mg/Kg wet	5.00		75.6	40-140			
n-Hexadecane	3.67	0.10	mg/Kg wet	5.00		73.5	40-140			
n-Hexatriacontane	3.66	0.10	mg/Kg wet	5.00		73.2	40-140			
n-Nonadecane	3.97	0.10	mg/Kg wet	5.00		79.4	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064404 - SW-846 3546										
LCS (B064404-BS1)				Prepared: 12/11/12 Analyzed: 12/12/12						
n-Nonane	1.83	0.10	mg/Kg wet	5.00		36.6	30-140			
n-Octacosane	3.64	0.10	mg/Kg wet	5.00		72.7	40-140			
n-Octadecane	4.04	0.10	mg/Kg wet	5.00		80.9	40-140			
n-Tetracosane	3.89	0.10	mg/Kg wet	5.00		77.9	40-140			
n-Tetradecane	3.28	0.10	mg/Kg wet	5.00		65.5	40-140			
n-Triacontane	3.62	0.10	mg/Kg wet	5.00		72.4	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.82*		mg/Kg wet	4.99		76.6	40-140			
Surrogate: o-Terphenyl (OTP)	*3.26*		mg/Kg wet	5.00		65.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.49*		mg/Kg wet	5.00		69.7	40-140			
Surrogate: 2-Fluorobiphenyl	*3.85*		mg/Kg wet	5.00		77.0	40-140			
LCS Dup (B064404-BSD1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Acenaphthene	3.68	0.10	mg/Kg wet	5.00		73.7	40-140	20.5	25	
Acenaphthylene	3.65	0.10	mg/Kg wet	5.00		73.0	40-140	20.7	25	
Anthracene	3.93	0.10	mg/Kg wet	5.00		78.7	40-140	13.4	25	
Benzo(a)anthracene	3.93	0.10	mg/Kg wet	5.00		78.6	40-140	9.78	25	
Benzo(a)pyrene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140	9.42	25	
Benzo(b)fluoranthene	3.88	0.10	mg/Kg wet	5.00		77.7	40-140	9.56	25	
Benzo(g,h,i)perylene	3.95	0.10	mg/Kg wet	5.00		79.1	40-140	10.5	25	
Benzo(k)fluoranthene	3.82	0.10	mg/Kg wet	5.00		76.3	40-140	9.59	25	
Chrysene	3.65	0.10	mg/Kg wet	5.00		73.0	40-140	9.42	25	
Dibenz(a,h)anthracene	3.97	0.10	mg/Kg wet	5.00		79.5	40-140	9.13	25	
Fluoranthene	3.89	0.10	mg/Kg wet	5.00		77.9	40-140	11.4	25	
Fluorene	3.79	0.10	mg/Kg wet	5.00		75.9	40-140	18.7	25	
Indeno(1,2,3-cd)pyrene	3.97	0.10	mg/Kg wet	5.00		79.5	40-140	9.49	25	
2-Methylnaphthalene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140	20.7	25	
Naphthalene	3.30	0.10	mg/Kg wet	5.00		65.9	40-140	19.4	25	
Phenanthrene	3.94	0.10	mg/Kg wet	5.00		78.8	40-140	14.8	25	
Pyrene	3.79	0.10	mg/Kg wet	5.00		75.7	40-140	11.2	25	
n-Decane	2.95	0.10	mg/Kg wet	5.00		58.9	40-140	20.1	25	
n-Docosane	4.39	0.10	mg/Kg wet	5.00		87.8	40-140	9.33	25	
n-Dodecane	3.59	0.10	mg/Kg wet	5.00		71.8	40-140	21.2	25	
n-Eicosane	4.47	0.10	mg/Kg wet	5.00		89.4	40-140	9.73	25	
n-Hexacosane	4.16	0.10	mg/Kg wet	5.00		83.3	40-140	9.70	25	
n-Hexadecane	4.35	0.10	mg/Kg wet	5.00		86.9	40-140	16.8	25	
n-Hexatriacontane	4.04	0.10	mg/Kg wet	5.00		80.8	40-140	9.79	25	
n-Nonadecane	4.39	0.10	mg/Kg wet	5.00		87.8	40-140	10.0	25	
n-Nonane	2.23	0.10	mg/Kg wet	5.00		44.7	30-140	20.0	25	
n-Octacosane	4.02	0.10	mg/Kg wet	5.00		80.4	40-140	10.0	25	
n-Octadecane	4.45	0.10	mg/Kg wet	5.00		89.0	40-140	9.63	25	
n-Tetracosane	4.27	0.10	mg/Kg wet	5.00		85.4	40-140	9.26	25	
n-Tetradecane	4.07	0.10	mg/Kg wet	5.00		81.4	40-140	21.5	25	
n-Triacontane	4.01	0.10	mg/Kg wet	5.00		80.2	40-140	10.1	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.01*		mg/Kg wet	4.99		80.3	40-140			
Surrogate: o-Terphenyl (OTP)	*3.51*		mg/Kg wet	5.00		70.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.48*		mg/Kg wet	5.00		69.5	40-140			
Surrogate: 2-Fluorobiphenyl	*4.01*		mg/Kg wet	5.00		80.2	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064513 - SW-846 3546										
Blank (B064513-BLK1)				Prepared: 12/12/12 Analyzed: 12/13/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.49*		mg/Kg wet	4.99		69.9	40-140			
Surrogate: o-Terphenyl (OTP)	*3.00*		mg/Kg wet	5.00		60.0	40-140			
Surrogate: 2-Bromonaphthalene	*2.98*		mg/Kg wet	5.00		59.6	40-140			
Surrogate: 2-Fluorobiphenyl	*3.20*		mg/Kg wet	5.00		64.0	40-140			
LCS (B064513-BS1)				Prepared: 12/12/12 Analyzed: 12/13/12						
Acenaphthene	2.92	0.10	mg/Kg wet	5.00		58.4	40-140			
Acenaphthylene	2.90	0.10	mg/Kg wet	5.00		58.0	40-140			
Anthracene	3.29	0.10	mg/Kg wet	5.00		65.7	40-140			
Benzo(a)anthracene	3.48	0.10	mg/Kg wet	5.00		69.5	40-140			
Benzo(a)pyrene	3.24	0.10	mg/Kg wet	5.00		64.8	40-140			
Benzo(b)fluoranthene	3.45	0.10	mg/Kg wet	5.00		69.0	40-140			
Benzo(g,h,i)perylene	3.52	0.10	mg/Kg wet	5.00		70.4	40-140			
Benzo(k)fluoranthene	3.39	0.10	mg/Kg wet	5.00		67.9	40-140			
Chrysene	3.24	0.10	mg/Kg wet	5.00		64.8	40-140			
Dibenz(a,h)anthracene	3.55	0.10	mg/Kg wet	5.00		71.0	40-140			
Fluoranthene	3.33	0.10	mg/Kg wet	5.00		66.7	40-140			
Fluorene	3.03	0.10	mg/Kg wet	5.00		60.5	40-140			
Indeno(1,2,3-cd)pyrene	3.54	0.10	mg/Kg wet	5.00		70.7	40-140			
2-Methylnaphthalene	2.92	0.10	mg/Kg wet	5.00		58.5	40-140			
Naphthalene	2.71	0.10	mg/Kg wet	5.00		54.1	40-140			
Phenanthrene	3.23	0.10	mg/Kg wet	5.00		64.6	40-140			
Pyrene	3.25	0.10	mg/Kg wet	5.00		65.0	40-140			
n-Decane	2.30	0.10	mg/Kg wet	5.00		46.1	40-140			
n-Docosane	3.89	0.10	mg/Kg wet	5.00		77.8	40-140			
n-Dodecane	2.88	0.10	mg/Kg wet	5.00		57.6	40-140			
n-Eicosane	3.91	0.10	mg/Kg wet	5.00		78.3	40-140			
n-Hexacosane	3.70	0.10	mg/Kg wet	5.00		73.9	40-140			
n-Hexadecane	3.53	0.10	mg/Kg wet	5.00		70.6	40-140			
n-Hexatriacontane	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
n-Nonadecane	3.79	0.10	mg/Kg wet	5.00		75.8	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064513 - SW-846 3546											
LCS (B064513-BS1)				Prepared: 12/12/12 Analyzed: 12/13/12							
n-Nonane	1.65	0.10	mg/Kg wet	5.00		33.0		30-140			
n-Octacosane	3.56	0.10	mg/Kg wet	5.00		71.2		40-140			
n-Octadecane	3.80	0.10	mg/Kg wet	5.00		76.1		40-140			
n-Tetracosane	3.80	0.10	mg/Kg wet	5.00		76.0		40-140			
n-Tetradecane	3.24	0.10	mg/Kg wet	5.00		64.7		40-140			
n-Triacontane	3.54	0.10	mg/Kg wet	5.00		70.9		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.77*		mg/Kg wet	4.99		75.6		40-140			
Surrogate: o-Terphenyl (OTP)	*3.21*		mg/Kg wet	5.00		64.3		40-140			
Surrogate: 2-Bromonaphthalene	*3.26*		mg/Kg wet	5.00		65.2		40-140			
Surrogate: 2-Fluorobiphenyl	*3.55*		mg/Kg wet	5.00		71.0		40-140			
LCS Dup (B064513-BSD1)				Prepared: 12/12/12 Analyzed: 12/13/12							
Acenaphthene	2.86	0.10	mg/Kg wet	5.00		57.2		40-140	2.07	25	
Acenaphthylene	2.83	0.10	mg/Kg wet	5.00		56.7		40-140	2.26	25	
Anthracene	3.27	0.10	mg/Kg wet	5.00		65.4		40-140	0.555	25	
Benzo(a)anthracene	3.42	0.10	mg/Kg wet	5.00		68.5		40-140	1.53	25	
Benzo(a)pyrene	3.17	0.10	mg/Kg wet	5.00		63.4		40-140	2.19	25	
Benzo(b)fluoranthene	3.35	0.10	mg/Kg wet	5.00		67.0		40-140	2.99	25	
Benzo(g,h,i)perylene	3.40	0.10	mg/Kg wet	5.00		67.9		40-140	3.59	25	
Benzo(k)fluoranthene	3.35	0.10	mg/Kg wet	5.00		66.9		40-140	1.37	25	
Chrysene	3.22	0.10	mg/Kg wet	5.00		64.4		40-140	0.669	25	
Dibenz(a,h)anthracene	3.48	0.10	mg/Kg wet	5.00		69.7		40-140	1.91	25	
Fluoranthene	3.31	0.10	mg/Kg wet	5.00		66.1		40-140	0.870	25	
Fluorene	2.99	0.10	mg/Kg wet	5.00		59.8		40-140	1.26	25	
Indeno(1,2,3-cd)pyrene	3.43	0.10	mg/Kg wet	5.00		68.7		40-140	2.91	25	
2-Methylnaphthalene	2.84	0.10	mg/Kg wet	5.00		56.8		40-140	2.93	25	
Naphthalene	2.60	0.10	mg/Kg wet	5.00		52.0		40-140	4.01	25	
Phenanthrene	3.22	0.10	mg/Kg wet	5.00		64.3		40-140	0.437	25	
Pyrene	3.22	0.10	mg/Kg wet	5.00		64.4		40-140	1.04	25	
n-Decane	1.98	0.10	mg/Kg wet	5.00		**39.6**	*	40-140	15.2	25	L-07
n-Docosane	3.73	0.10	mg/Kg wet	5.00		74.6		40-140	4.26	25	
n-Dodecane	2.61	0.10	mg/Kg wet	5.00		52.3		40-140	9.69	25	
n-Eicosane	3.77	0.10	mg/Kg wet	5.00		75.5		40-140	3.59	25	
n-Hexacosane	3.54	0.10	mg/Kg wet	5.00		70.7		40-140	4.38	25	
n-Hexadecane	3.38	0.10	mg/Kg wet	5.00		67.5		40-140	4.46	25	
n-Hexatriacontane	3.41	0.10	mg/Kg wet	5.00		68.2		40-140	5.22	25	
n-Nonadecane	3.66	0.10	mg/Kg wet	5.00		73.2		40-140	3.53	25	
n-Nonane	1.34	0.10	mg/Kg wet	5.00		**26.9**	*	30-140	20.5	25	L-07
n-Octacosane	3.40	0.10	mg/Kg wet	5.00		68.1		40-140	4.53	25	
n-Octadecane	3.67	0.10	mg/Kg wet	5.00		73.4		40-140	3.57	25	
n-Tetracosane	3.65	0.10	mg/Kg wet	5.00		72.9		40-140	4.09	25	
n-Tetradecane	3.02	0.10	mg/Kg wet	5.00		60.4		40-140	6.98	25	
n-Triacontane	3.40	0.10	mg/Kg wet	5.00		67.9		40-140	4.28	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.43*		mg/Kg wet	4.99		68.7		40-140			
Surrogate: o-Terphenyl (OTP)	*3.04*		mg/Kg wet	5.00		60.8		40-140			
Surrogate: 2-Bromonaphthalene	*3.40*		mg/Kg wet	5.00		68.0		40-140			
Surrogate: 2-Fluorobiphenyl	*3.78*		mg/Kg wet	5.00		75.6		40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064554 - SW-846 3546										
Blank (B064554-BLK1)				Prepared: 12/13/12 Analyzed: 12/14/12						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.58*		mg/Kg wet	4.97		72.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.64*		mg/Kg wet	4.98		73.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.39*		mg/Kg wet	4.98		68.2	40-140			
Surrogate: 2-Fluorobiphenyl	*3.86*		mg/Kg wet	4.98		77.5	40-140			
LCS (B064554-BS1)				Prepared: 12/13/12 Analyzed: 12/14/12						
Acenaphthene	3.50	0.10	mg/Kg wet	4.98		70.3	40-140			
Acenaphthylene	3.43	0.10	mg/Kg wet	4.98		69.0	40-140			
Anthracene	3.85	0.10	mg/Kg wet	4.98		77.4	40-140			
Benzo(a)anthracene	3.92	0.10	mg/Kg wet	4.98		78.7	40-140			
Benzo(a)pyrene	3.72	0.10	mg/Kg wet	4.98		74.8	40-140			
Benzo(b)fluoranthene	3.93	0.10	mg/Kg wet	4.98		78.9	40-140			
Benzo(g,h,i)perylene	4.17	0.10	mg/Kg wet	4.98		83.9	40-140			
Benzo(k)fluoranthene	3.87	0.10	mg/Kg wet	4.98		77.8	40-140			
Chrysene	3.67	0.10	mg/Kg wet	4.98		73.7	40-140			
Dibenz(a,h)anthracene	4.11	0.10	mg/Kg wet	4.98		82.6	40-140			
Fluoranthene	3.84	0.10	mg/Kg wet	4.98		77.3	40-140			
Fluorene	3.67	0.10	mg/Kg wet	4.98		73.8	40-140			
Indeno(1,2,3-cd)pyrene	4.14	0.10	mg/Kg wet	4.98		83.3	40-140			
2-Methylnaphthalene	3.21	0.10	mg/Kg wet	4.98		64.6	40-140			
Naphthalene	2.89	0.10	mg/Kg wet	4.98		58.0	40-140			
Phenanthrene	3.80	0.10	mg/Kg wet	4.98		76.4	40-140			
Pyrene	3.76	0.10	mg/Kg wet	4.98		75.5	40-140			
n-Decane	2.14	0.10	mg/Kg wet	4.98		43.1	40-140			
n-Docosane	4.16	0.10	mg/Kg wet	4.98		83.5	40-140			
n-Dodecane	2.79	0.10	mg/Kg wet	4.98		56.1	40-140			
n-Eicosane	4.07	0.10	mg/Kg wet	4.98		81.8	40-140			
n-Hexacosane	4.08	0.10	mg/Kg wet	4.98		82.1	40-140			
n-Hexadecane	3.68	0.10	mg/Kg wet	4.98		73.9	40-140			
n-Hexatriacontane	3.98	0.10	mg/Kg wet	4.98		80.0	40-140			
n-Nonadecane	4.07	0.10	mg/Kg wet	4.98		81.8	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064554 - SW-846 3546										
LCS (B064554-BS1)				Prepared: 12/13/12 Analyzed: 12/14/12						
n-Nonane	1.51	0.10	mg/Kg wet	4.98		30.3	30-140			
n-Octacosane	3.91	0.10	mg/Kg wet	4.98		78.7	40-140			
n-Octadecane	3.98	0.10	mg/Kg wet	4.98		80.1	40-140			
n-Tetracosane	4.13	0.10	mg/Kg wet	4.98		83.0	40-140			
n-Tetradecane	3.35	0.10	mg/Kg wet	4.98		67.4	40-140			
n-Triacontane	4.01	0.10	mg/Kg wet	4.98		80.5	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	4.98			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	4.98			0-5			
Surrogate: Chlorooctadecane (COD)	*3.72*		mg/Kg wet	4.97		75.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.69*		mg/Kg wet	4.98		74.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.46*		mg/Kg wet	4.98		69.4	40-140			
Surrogate: 2-Fluorobiphenyl	*3.91*		mg/Kg wet	4.98		78.5	40-140			
LCS Dup (B064554-BSD1)				Prepared: 12/13/12 Analyzed: 12/14/12						
Acenaphthene	3.63	0.10	mg/Kg wet	4.98		72.9	40-140	3.67	25	
Acenaphthylene	3.59	0.10	mg/Kg wet	4.98		72.1	40-140	4.51	25	
Anthracene	3.93	0.10	mg/Kg wet	4.98		79.0	40-140	2.05	25	
Benzo(a)anthracene	3.97	0.10	mg/Kg wet	4.98		79.8	40-140	1.36	25	
Benzo(a)pyrene	3.79	0.10	mg/Kg wet	4.98		76.1	40-140	1.75	25	
Benzo(b)fluoranthene	3.97	0.10	mg/Kg wet	4.98		79.8	40-140	1.14	25	
Benzo(g,h,i)perylene	4.24	0.10	mg/Kg wet	4.98		85.3	40-140	1.62	25	
Benzo(k)fluoranthene	3.94	0.10	mg/Kg wet	4.98		79.1	40-140	1.64	25	
Chrysene	3.72	0.10	mg/Kg wet	4.98		74.8	40-140	1.50	25	
Dibenz(a,h)anthracene	4.24	0.10	mg/Kg wet	4.98		85.2	40-140	3.01	25	
Fluoranthene	3.89	0.10	mg/Kg wet	4.98		78.2	40-140	1.20	25	
Fluorene	3.80	0.10	mg/Kg wet	4.98		76.4	40-140	3.39	25	
Indeno(1,2,3-cd)pyrene	4.22	0.10	mg/Kg wet	4.98		84.9	40-140	1.94	25	
2-Methylnaphthalene	3.37	0.10	mg/Kg wet	4.98		67.8	40-140	4.85	25	
Naphthalene	3.07	0.10	mg/Kg wet	4.98		61.7	40-140	6.03	25	
Phenanthrene	3.90	0.10	mg/Kg wet	4.98		78.3	40-140	2.55	25	
Pyrene	3.80	0.10	mg/Kg wet	4.98		76.4	40-140	1.18	25	
n-Decane	2.41	0.10	mg/Kg wet	4.98		48.4	40-140	11.7	25	
n-Docosane	4.09	0.10	mg/Kg wet	4.98		82.3	40-140	1.47	25	
n-Dodecane	2.93	0.10	mg/Kg wet	4.98		59.0	40-140	4.89	25	
n-Eicosane	4.04	0.10	mg/Kg wet	4.98		81.3	40-140	0.574	25	
n-Hexacosane	3.97	0.10	mg/Kg wet	4.98		79.9	40-140	2.72	25	
n-Hexadecane	3.80	0.10	mg/Kg wet	4.98		76.4	40-140	3.34	25	
n-Hexatriacontane	3.88	0.10	mg/Kg wet	4.98		78.0	40-140	2.64	25	
n-Nonadecane	4.07	0.10	mg/Kg wet	4.98		81.7	40-140	0.0416	25	
n-Nonane	1.78	0.10	mg/Kg wet	4.98		35.8	30-140	16.8	25	
n-Octacosane	3.80	0.10	mg/Kg wet	4.98		76.4	40-140	2.88	25	
n-Octadecane	4.00	0.10	mg/Kg wet	4.98		80.5	40-140	0.491	25	
n-Tetracosane	4.03	0.10	mg/Kg wet	4.98		81.1	40-140	2.39	25	
n-Tetradecane	3.42	0.10	mg/Kg wet	4.98		68.7	40-140	1.90	25	
n-Triacontane	3.89	0.10	mg/Kg wet	4.98		78.1	40-140	3.07	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	4.98			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	4.98			0-5			
Surrogate: Chlorooctadecane (COD)	*3.64*		mg/Kg wet	4.97		73.4	40-140			
Surrogate: o-Terphenyl (OTP)	*3.71*		mg/Kg wet	4.98		74.5	40-140			
Surrogate: 2-Bromonaphthalene	*3.32*		mg/Kg wet	4.98		66.7	40-140			
Surrogate: 2-Fluorobiphenyl	*3.83*		mg/Kg wet	4.98		76.9	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064252 - SW-846 3050B										
Blank (B064252-BLK1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B064252-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	8950	5.0	mg/Kg wet	8360		107	40.4-159.1			
Antimony	81.7	5.0	mg/Kg wet	92.9		87.9	8.2-191.6			
Arsenic	90.0	5.0	mg/Kg wet	94.5		95.2	82.2-117.5			
Barium	170	5.0	mg/Kg wet	166		102	83.1-116.3			
Beryllium	56.6	0.50	mg/Kg wet	52.6		108	83.8-116.2			
Cadmium	61.0	0.50	mg/Kg wet	59.9		102	84-115.9			
Calcium	6400	15	mg/Kg wet	6160		104	82.3-117.5			
Chromium	71.6	0.99	mg/Kg wet	69.3		103	81.4-118.6			
Cobalt	102	5.0	mg/Kg wet	101		101	83.8-115.8			
Copper	88.8	0.99	mg/Kg wet	78.0		114	83.7-116.2			
Iron	13300	5.0	mg/Kg wet	12800		104	50.6-149.2			
Lead	82.0	1.5	mg/Kg wet	91.7		89.4	82.4-117.8			
Magnesium	3200	15	mg/Kg wet	3030		106	76.2-123.8			
Manganese	291	0.99	mg/Kg wet	283		103	81.6-118			
Nickel	55.0	0.99	mg/Kg wet	56.6		97.1	82.2-117.8			
Potassium	3970	200	mg/Kg wet	3820		104	73.6-126.4			
Selenium	149	9.9	mg/Kg wet	159		93.8	79.2-120.8			
Silver	32.7	0.99	mg/Kg wet	33.9		96.3	66.4-133.9			
Sodium	692	200	mg/Kg wet	652		106	73.6-126.2			
Thallium	116	5.0	mg/Kg wet	119		97.3	81.1-119.3			
Vanadium	62.7	2.0	mg/Kg wet	56.3		111	72.8-127.2			
Zinc	135	2.0	mg/Kg wet	137		98.2	81-119			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064252 - SW-846 3050B										
LCS Dup (B064252-BSD1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	9180	5.0	mg/Kg wet	8360		110	40.4-159.1	2.54	30	
Antimony	84.1	5.0	mg/Kg wet	92.9		90.5	8.2-191.6	2.92	30	
Arsenic	90.9	5.0	mg/Kg wet	94.5		96.2	82.2-117.5	1.06	30	
Barium	171	5.0	mg/Kg wet	166		103	83.1-116.3	0.357	30	
Beryllium	57.3	0.50	mg/Kg wet	52.6		109	83.8-116.2	1.10	30	
Cadmium	60.6	0.50	mg/Kg wet	59.9		101	84-115.9	0.634	30	
Calcium	6490	15	mg/Kg wet	6160		105	82.3-117.5	1.34	30	
Chromium	72.6	0.99	mg/Kg wet	69.3		105	81.4-118.6	1.44	30	
Cobalt	102	5.0	mg/Kg wet	101		101	83.8-115.8	0.135	30	
Copper	86.3	0.99	mg/Kg wet	78.0		111	83.7-116.2	2.81	30	
Iron	13100	5.0	mg/Kg wet	12800		103	50.6-149.2	1.02	30	
Lead	84.3	1.5	mg/Kg wet	91.7		92.0	82.4-117.8	2.81	30	
Magnesium	3230	15	mg/Kg wet	3030		106	76.2-123.8	0.771	30	
Manganese	292	0.99	mg/Kg wet	283		103	81.6-118	0.239	30	
Nickel	54.7	0.99	mg/Kg wet	56.6		96.7	82.2-117.8	0.469	30	
Potassium	4070	200	mg/Kg wet	3820		107	73.6-126.4	2.54	30	
Selenium	151	9.9	mg/Kg wet	159		94.8	79.2-120.8	1.05	30	
Silver	32.3	0.99	mg/Kg wet	33.9		95.4	66.4-133.9	0.936	30	
Sodium	696	200	mg/Kg wet	652		107	73.6-126.2	0.560	30	
Thallium	116	5.0	mg/Kg wet	119		97.7	81.1-119.3	0.428	30	
Vanadium	62.3	2.0	mg/Kg wet	56.3		111	72.8-127.2	0.700	30	
Zinc	135	2.0	mg/Kg wet	137		98.5	81-119	0.267	30	
MRL Check (B064252-MRL1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Lead	0.663	0.70	mg/Kg wet	0.696		95.3	80-120			
Batch B064261 - SW-846 3050B										
Blank (B064261-BLK1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	0.73	0.50	mg/Kg wet							B-07
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064261 - SW-846 3050B										
LCS (B064261-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	7400	5.0	mg/Kg wet	8360		88.5	40.4-159.1			
Antimony	81.9	5.0	mg/Kg wet	92.9		88.2	8.2-191.6			
Arsenic	86.0	5.0	mg/Kg wet	94.5		91.0	82.2-117.5			
Barium	159	5.0	mg/Kg wet	166		95.5	83.1-116.3			
Beryllium	53.7	0.50	mg/Kg wet	52.6		102	83.8-116.2			
Cadmium	57.9	0.50	mg/Kg wet	59.9		96.7	84-115.9			
Calcium	6010	15	mg/Kg wet	6160		97.6	82.3-117.5			
Chromium	66.0	0.99	mg/Kg wet	69.3		95.2	81.4-118.6			
Cobalt	96.8	5.0	mg/Kg wet	101		95.8	83.8-115.8			
Copper	75.2	0.99	mg/Kg wet	78.0		96.4	83.7-116.2			B
Iron	11800	5.0	mg/Kg wet	12800		92.4	50.6-149.2			
Lead	89.3	1.5	mg/Kg wet	91.7		97.4	82.4-117.8			
Magnesium	2910	15	mg/Kg wet	3030		95.9	76.2-123.8			
Manganese	263	0.99	mg/Kg wet	283		93.0	81.6-118			
Nickel	58.4	0.99	mg/Kg wet	56.6		103	82.2-117.8			
Potassium	3640	200	mg/Kg wet	3820		95.3	73.6-126.4			
Selenium	142	9.9	mg/Kg wet	159		89.5	79.2-120.8			
Silver	31.2	0.99	mg/Kg wet	33.9		92.1	66.4-133.9			
Sodium	645	200	mg/Kg wet	652		98.9	73.6-126.2			
Thallium	113	5.0	mg/Kg wet	119		94.9	81.1-119.3			
Vanadium	56.1	2.0	mg/Kg wet	56.3		99.7	72.8-127.2			
Zinc	127	2.0	mg/Kg wet	137		92.4	81-119			
LCS Dup (B064261-BSD1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Aluminum	8040	5.0	mg/Kg wet	8360		96.1	40.4-159.1	8.29	30	
Antimony	86.6	5.0	mg/Kg wet	92.9		93.2	8.2-191.6	5.58	30	
Arsenic	90.6	5.0	mg/Kg wet	94.5		95.8	82.2-117.5	5.24	30	
Barium	170	5.0	mg/Kg wet	166		103	83.1-116.3	7.10	30	
Beryllium	56.6	0.50	mg/Kg wet	52.6		108	83.8-116.2	5.28	30	
Cadmium	61.3	0.50	mg/Kg wet	59.9		102	84-115.9	5.71	30	
Calcium	6260	15	mg/Kg wet	6160		102	82.3-117.5	4.03	30	
Chromium	71.1	0.99	mg/Kg wet	69.3		103	81.4-118.6	7.38	30	
Cobalt	103	5.0	mg/Kg wet	101		102	83.8-115.8	6.48	30	
Copper	79.9	0.99	mg/Kg wet	78.0		102	83.7-116.2	6.15	30	B
Iron	12600	5.0	mg/Kg wet	12800		98.3	50.6-149.2	6.19	30	
Lead	93.7	1.5	mg/Kg wet	91.7		102	82.4-117.8	4.85	30	
Magnesium	3060	15	mg/Kg wet	3030		101	76.2-123.8	5.05	30	
Manganese	278	0.99	mg/Kg wet	283		98.1	81.6-118	5.41	30	
Nickel	60.1	0.99	mg/Kg wet	56.6		106	82.2-117.8	2.93	30	
Potassium	3860	200	mg/Kg wet	3820		101	73.6-126.4	5.96	30	
Selenium	149	9.9	mg/Kg wet	159		93.5	79.2-120.8	4.36	30	
Silver	32.4	0.99	mg/Kg wet	33.9		95.6	66.4-133.9	3.70	30	
Sodium	671	200	mg/Kg wet	652		103	73.6-126.2	3.99	30	
Thallium	120	5.0	mg/Kg wet	119		101	81.1-119.3	5.96	30	
Vanadium	60.9	2.0	mg/Kg wet	56.3		108	72.8-127.2	8.24	30	
Zinc	135	2.0	mg/Kg wet	137		98.4	81-119	6.38	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064261 - SW-846 3050B											
Duplicate (B064261-DUP1)		**Source: 12L0189-44**		Prepared: 12/07/12	Analyzed: 12/10/12						
Aluminum	5120	2.7	mg/Kg dry		6010				15.9	35	
Antimony	ND	2.7	mg/Kg dry		ND				NC	35	
Arsenic	ND	2.7	mg/Kg dry		ND				NC	35	
Barium	22.3	2.7	mg/Kg dry		28.6				24.7	35	
Beryllium	ND	0.27	mg/Kg dry		ND				NC	35	
Cadmium	ND	0.27	mg/Kg dry		ND				NC	35	
Calcium	1200	8.0	mg/Kg dry		1570				26.7	35	
Chromium	10.7	0.53	mg/Kg dry		13.4				22.6	35	
Cobalt	4.75	2.7	mg/Kg dry		5.12				7.49	35	
Copper	6.96	0.53	mg/Kg dry		7.50				7.51	35	B, B-07
Iron	9110	2.7	mg/Kg dry		9770				6.99	35	
Lead	4.25	0.80	mg/Kg dry		4.60				7.91	35	M-10
Magnesium	2480	8.0	mg/Kg dry		3050				20.5	35	
Manganese	137	0.53	mg/Kg dry		153				10.6	35	
Nickel	10.1	0.53	mg/Kg dry		11.8				15.5	35	
Potassium	1460	110	mg/Kg dry		1690				14.9	35	
Selenium	ND	5.3	mg/Kg dry		ND				NC	35	
Silver	ND	0.53	mg/Kg dry		ND				NC	35	
Sodium	ND	110	mg/Kg dry		ND				NC	35	
Thallium	ND	2.7	mg/Kg dry		ND				NC	35	
Vanadium	13.8	1.1	mg/Kg dry		17.1				21.7	35	
Zinc	30.1	1.1	mg/Kg dry		31.9				5.65	35	
MRL Check (B064261-MRL1)				Prepared: 12/07/12	Analyzed: 12/11/12						
Lead	1.03	0.73	mg/Kg wet	0.734		**140**	*	80-120			M-10
Matrix Spike (B064261-MS1)		**Source: 12L0189-44**		Prepared: 12/07/12	Analyzed: 12/10/12						
Aluminum	6000	2.8	mg/Kg dry	111	6010	**-3.56**	*	75-125			MS-19
Antimony	63.3	2.8	mg/Kg dry	111	ND	**57.2**	*	75-125			MS-07
Arsenic	112	2.8	mg/Kg dry	111	ND	102		75-125			
Barium	136	2.8	mg/Kg dry	111	28.6	96.9		75-125			
Beryllium	110	0.28	mg/Kg dry	111	ND	99.1		75-125			
Cadmium	106	0.28	mg/Kg dry	111	ND	96.0		75-125			
Calcium	1660	8.3	mg/Kg dry	111	1570	79.5		75-125			
Chromium	118	0.55	mg/Kg dry	111	13.4	94.3		75-125			
Cobalt	110	2.8	mg/Kg dry	111	5.12	94.9		75-125			
Copper	115	0.55	mg/Kg dry	111	7.50	96.8		75-125			B
Iron	9890	2.8	mg/Kg dry	111	9770	111		75-125			
Lead	113	0.83	mg/Kg dry	111	4.60	98.0		75-125			
Magnesium	2920	8.3	mg/Kg dry	111	3050	**-119**	*	75-125			MS-19
Manganese	275	0.55	mg/Kg dry	111	153	111		75-125			
Nickel	118	0.55	mg/Kg dry	111	11.8	96.0		75-125			
Potassium	2640	110	mg/Kg dry	1110	1690	85.7		75-125			
Selenium	95.8	5.5	mg/Kg dry	111	ND	86.6		75-125			
Silver	101	0.55	mg/Kg dry	111	ND	91.0		75-125			
Sodium	216	110	mg/Kg dry	111	99.8	105		75-125			
Thallium	106	2.8	mg/Kg dry	111	ND	95.7		75-125			
Vanadium	127	1.1	mg/Kg dry	111	17.1	99.3		75-125			
Zinc	135	1.1	mg/Kg dry	111	31.9	92.9		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064266 - SW-846 7471										
Blank (B064266-BLK1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B064266-BS1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Mercury	3.64	0.33	mg/Kg wet	3.73		97.6	71.7-128.3			
LCS Dup (B064266-BSD1)				Prepared: 12/07/12 Analyzed: 12/10/12						
Mercury	4.47	0.33	mg/Kg wet	3.73		120	71.7-128.3	20.5	30	
Duplicate (B064266-DUP1)		**Source: 12L0189-44**		Prepared: 12/07/12 Analyzed: 12/10/12						
Mercury	ND	0.027	mg/Kg dry		ND			NC	35	
Matrix Spike (B064266-MS1)		**Source: 12L0189-44**		Prepared: 12/07/12 Analyzed: 12/10/12						
Mercury	0.181	0.027	mg/Kg dry	0.181	ND	99.7	75-125			
Batch B064291 - SW-846 3050B										
Blank (B064291-BLK1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B064291-BS1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Aluminum	7920	5.0	mg/Kg wet	8360		94.7	40.4-159.1			
Antimony	93.5	5.0	mg/Kg wet	92.9		101	8.2-191.6			
Arsenic	92.1	5.0	mg/Kg wet	94.5		97.4	82.2-117.5			
Barium	168	5.0	mg/Kg wet	166		101	83.1-116.3			
Beryllium	55.5	0.50	mg/Kg wet	52.6		106	83.8-116.2			
Cadmium	59.0	0.50	mg/Kg wet	59.9		98.5	84-115.9			
Calcium	6360	15	mg/Kg wet	6160		103	82.3-117.5			
Chromium	69.5	1.0	mg/Kg wet	69.3		100	81.4-118.6			
Cobalt	101	5.0	mg/Kg wet	101		99.8	83.8-115.8			
Copper	79.0	1.0	mg/Kg wet	78.0		101	83.7-116.2			
Iron	12500	5.0	mg/Kg wet	12800		97.9	50.6-149.2			
Lead	84.3	1.5	mg/Kg wet	91.7		91.9	82.4-117.8			
Magnesium	3060	15	mg/Kg wet	3030		101	76.2-123.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064291 - SW-846 3050B										
LCS (B064291-BS1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Manganese	281	1.0	mg/Kg wet	283		99.2	81.6-118			
Nickel	54.9	1.0	mg/Kg wet	56.6		97.0	82.2-117.8			
Potassium	3830	200	mg/Kg wet	3820		100	73.6-126.4			
Selenium	153	10	mg/Kg wet	159		96.3	79.2-120.8			
Silver	32.4	1.0	mg/Kg wet	33.9		95.6	66.4-133.9			
Sodium	681	200	mg/Kg wet	652		104	73.6-126.2			
Thallium	112	5.0	mg/Kg wet	119		94.2	81.1-119.3			
Vanadium	59.3	2.0	mg/Kg wet	56.3		105	72.8-127.2			
Zinc	133	2.0	mg/Kg wet	137		97.3	81-119			
LCS Dup (B064291-BSD1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Aluminum	7490	5.0	mg/Kg wet	8360		89.6	40.4-159.1	5.55	30	
Antimony	86.5	5.0	mg/Kg wet	92.9		93.1	8.2-191.6	7.85	30	
Arsenic	89.3	5.0	mg/Kg wet	94.5		94.5	82.2-117.5	3.03	30	
Barium	165	5.0	mg/Kg wet	166		99.4	83.1-116.3	2.07	30	
Beryllium	54.6	0.50	mg/Kg wet	52.6		104	83.8-116.2	1.70	30	
Cadmium	57.5	0.50	mg/Kg wet	59.9		96.0	84-115.9	2.62	30	
Calcium	6260	15	mg/Kg wet	6160		102	82.3-117.5	1.57	30	
Chromium	68.8	0.99	mg/Kg wet	69.3		99.3	81.4-118.6	0.933	30	
Cobalt	98.1	5.0	mg/Kg wet	101		97.2	83.8-115.8	2.64	30	
Copper	77.4	0.99	mg/Kg wet	78.0		99.2	83.7-116.2	2.04	30	
Iron	12600	5.0	mg/Kg wet	12800		98.1	50.6-149.2	0.178	30	
Lead	83.3	1.5	mg/Kg wet	91.7		90.9	82.4-117.8	1.12	30	
Magnesium	3020	15	mg/Kg wet	3030		99.6	76.2-123.8	1.35	30	
Manganese	279	0.99	mg/Kg wet	283		98.6	81.6-118	0.614	30	
Nickel	53.2	0.99	mg/Kg wet	56.6		94.0	82.2-117.8	3.15	30	
Potassium	3780	200	mg/Kg wet	3820		99.0	73.6-126.4	1.34	30	
Selenium	148	9.9	mg/Kg wet	159		93.4	79.2-120.8	3.11	30	
Silver	31.8	0.99	mg/Kg wet	33.9		93.8	66.4-133.9	1.82	30	
Sodium	668	200	mg/Kg wet	652		103	73.6-126.2	1.83	30	
Thallium	110	5.0	mg/Kg wet	119		92.5	81.1-119.3	1.84	30	
Vanadium	59.2	2.0	mg/Kg wet	56.3		105	72.8-127.2	0.252	30	
Zinc	129	2.0	mg/Kg wet	137		94.5	81-119	2.97	30	
MRL Check (B064291-MRL1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Lead	0.715	0.73	mg/Kg wet	0.731		97.8	80-120			
Batch B064292 - SW-846 7471										
Blank (B064292-BLK1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Mercury	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064292 - SW-846 7471										
LCS (B064292-BS1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Mercury	3.76	0.33	mg/Kg wet	3.73		101	71.7-128.3			
LCS Dup (B064292-BSD1)				Prepared: 12/08/12 Analyzed: 12/10/12						
Mercury	2.90	0.31	mg/Kg wet	3.42		84.9	71.7-128.3	25.8	30	
Batch B064351 - SW-846 7471										
Blank (B064351-BLK1)				Prepared & Analyzed: 12/11/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B064351-BS1)				Prepared & Analyzed: 12/11/12						
Mercury	4.53	0.33	mg/Kg wet	3.73		122	71.7-128.3			
LCS Dup (B064351-BSD1)				Prepared & Analyzed: 12/11/12						
Mercury	4.15	0.33	mg/Kg wet	3.73		111	71.7-128.3	8.76	30	
Duplicate (B064351-DUP1)	**Source: 12L0189-09**			Prepared & Analyzed: 12/11/12						
Mercury	ND	0.027	mg/Kg dry		ND			NC	35	
Matrix Spike (B064351-MS1)	**Source: 12L0189-09**			Prepared & Analyzed: 12/11/12						
Mercury	0.193	0.027	mg/Kg dry	0.179	ND	107	75-125			
Batch B064353 - SW-846 3050B										
Blank (B064353-BLK1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	2.5	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064353 - SW-846 3050B										
Blank (B064353-BLK2)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
LCS (B064353-BS1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7780	5.0	mg/Kg wet	8360		93.0	40.4-159.1			
Antimony	95.2	5.0	mg/Kg wet	92.9		102	8.2-191.6			
Arsenic	95.1	5.0	mg/Kg wet	94.5		101	82.2-117.5			
Barium	170	5.0	mg/Kg wet	166		102	83.1-116.3			
Beryllium	52.9	0.50	mg/Kg wet	52.6		101	83.8-116.2			
Cadmium	51.6	0.50	mg/Kg wet	59.9		86.1	84-115.9			
Calcium	5950	15	mg/Kg wet	6160		96.6	82.3-117.5			
Chromium	69.6	1.0	mg/Kg wet	69.3		100	81.4-118.6			
Cobalt	98.5	5.0	mg/Kg wet	101		97.6	83.8-115.8			
Copper	77.3	1.0	mg/Kg wet	78.0		99.0	83.7-116.2			
Iron	11000	5.0	mg/Kg wet	12800		85.7	50.6-149.2			
Lead	85.7	1.5	mg/Kg wet	91.7		93.4	82.4-117.8			
Magnesium	2980	15	mg/Kg wet	3030		98.5	76.2-123.8			
Manganese	270	1.0	mg/Kg wet	283		95.5	81.6-118			
Nickel	53.9	1.0	mg/Kg wet	56.6		95.2	82.2-117.8			
Potassium	3800	200	mg/Kg wet	3820		99.4	73.6-126.4			
Selenium	157	10	mg/Kg wet	159		98.6	79.2-120.8			
Silver	31.8	1.0	mg/Kg wet	33.9		93.9	66.4-133.9			
Sodium	701	200	mg/Kg wet	652		108	73.6-126.2			
Thallium	102	5.0	mg/Kg wet	119		85.6	81.1-119.3			
Vanadium	59.1	2.0	mg/Kg wet	56.3		105	72.8-127.2			
Zinc	131	2.0	mg/Kg wet	137		95.6	81-119			
LCS (B064353-BS2)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7780	5.0	mg/Kg wet	8360		93.0	40.4-159.1			
Copper	77.3	1.0	mg/Kg wet	78.0		99.0	83.7-116.2			
Lead	85.7	1.5	mg/Kg wet	91.7		93.4	82.4-117.8			
Nickel	53.9	1.0	mg/Kg wet	56.6		95.2	82.2-117.8			
Silver	31.8	1.0	mg/Kg wet	33.9		93.9	66.4-133.9			
Thallium	102	5.0	mg/Kg wet	119		85.6	81.1-119.3			
LCS Dup (B064353-BSD1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7690	5.0	mg/Kg wet	8360		92.0	40.4-159.1	1.14	30	
Antimony	92.7	5.0	mg/Kg wet	92.9		99.7	8.2-191.6	2.66	30	
Arsenic	96.4	5.0	mg/Kg wet	94.5		102	82.2-117.5	1.35	30	
Barium	168	5.0	mg/Kg wet	166		101	83.1-116.3	0.991	30	
Beryllium	53.9	0.50	mg/Kg wet	52.6		102	83.8-116.2	1.74	30	
Cadmium	52.7	0.50	mg/Kg wet	59.9		88.0	84-115.9	2.16	30	
Calcium	6110	15	mg/Kg wet	6160		99.1	82.3-117.5	2.62	30	
Chromium	70.5	0.99	mg/Kg wet	69.3		102	81.4-118.6	1.31	30	
Cobalt	100	5.0	mg/Kg wet	101		99.1	83.8-115.8	1.56	30	
Copper	79.2	0.99	mg/Kg wet	78.0		102	83.7-116.2	2.49	30	
Iron	11200	5.0	mg/Kg wet	12800		87.8	50.6-149.2	2.39	30	
Lead	85.1	1.5	mg/Kg wet	91.7		92.8	82.4-117.8	0.628	30	
Magnesium	3030	15	mg/Kg wet	3030		100	76.2-123.8	1.55	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064353 - SW-846 3050B										
LCS Dup (B064353-BSD1)				Prepared & Analyzed: 12/11/12						
Manganese	278	0.99	mg/Kg wet	283		98.4	81.6-118	2.92	30	
Nickel	55.6	0.99	mg/Kg wet	56.6		98.2	82.2-117.8	3.08	30	
Potassium	3880	200	mg/Kg wet	3820		102	73.6-126.4	2.22	30	
Selenium	162	9.9	mg/Kg wet	159		102	79.2-120.8	3.07	30	
Silver	31.9	0.99	mg/Kg wet	33.9		94.0	66.4-133.9	0.116	30	
Sodium	704	200	mg/Kg wet	652		108	73.6-126.2	0.403	30	
Thallium	105	5.0	mg/Kg wet	119		88.3	81.1-119.3	3.13	30	
Vanadium	59.3	2.0	mg/Kg wet	56.3		105	72.8-127.2	0.437	30	
Zinc	134	2.0	mg/Kg wet	137		97.4	81-119	1.93	30	
LCS Dup (B064353-BSD2)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7690	5.0	mg/Kg wet	8360		92.0	40.4-159.1	1.14	30	
Copper	79.2	0.99	mg/Kg wet	78.0		102	83.7-116.2	2.49	30	
Lead	85.1	1.5	mg/Kg wet	91.7		92.8	82.4-117.8	0.628	30	
Nickel	55.6	0.99	mg/Kg wet	56.6		98.2	82.2-117.8	3.08	30	
Silver	31.9	0.99	mg/Kg wet	33.9		94.0	66.4-133.9	0.116	30	
Thallium	105	5.0	mg/Kg wet	119		88.3	81.1-119.3	3.13	30	
Duplicate (B064353-DUP1)		**Source: 12L0189-09**		Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	34800	2.6	mg/Kg dry		35100			1.02	35	
Antimony	ND	2.6	mg/Kg dry		ND			NC	35	
Arsenic	ND	2.6	mg/Kg dry		ND			NC	35	
Barium	292	2.6	mg/Kg dry		298			2.21	35	
Beryllium	ND	1.3	mg/Kg dry		ND			NC	35	DL-04
Cadmium	0.332	0.26	mg/Kg dry		0.362			8.59	35	
Calcium	4340	7.8	mg/Kg dry		4150			4.65	35	
Chromium	123	0.52	mg/Kg dry		116			5.94	35	
Cobalt	22.8	2.6	mg/Kg dry		22.0			3.72	35	
Copper	16.4	0.52	mg/Kg dry		17.3			4.96	35	
Iron	39100	13	mg/Kg dry		40800			4.25	35	
Lead	3.67	0.78	mg/Kg dry		3.25			12.3	35	
Magnesium	21600	39	mg/Kg dry		22500			4.07	35	
Manganese	642	0.52	mg/Kg dry		627			2.41	35	
Nickel	65.7	0.52	mg/Kg dry		66.5			1.15	35	
Potassium	15000	100	mg/Kg dry		15800			4.91	35	
Selenium	ND	5.2	mg/Kg dry		ND			NC	35	
Silver	ND	0.52	mg/Kg dry		ND			NC	35	
Sodium	625	100	mg/Kg dry		604			3.42	35	
Thallium	ND	2.6	mg/Kg dry		ND			NC	35	
Vanadium	101	1.0	mg/Kg dry		104			3.00	35	
Zinc	74.5	1.0	mg/Kg dry		75.5			1.43	35	
MRL Check (B064353-MRL1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Lead	0.760	0.69	mg/Kg wet	0.694		109	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B064353 - SW-846 3050B											
Matrix Spike (B064353-MS1)		**Source: 12L0189-09**		Prepared: 12/11/12 Analyzed: 12/12/12							
Aluminum	35400	2.6	mg/Kg dry	103	35100	**221**	*	75-125			MS-19
Antimony	30.0	2.6	mg/Kg dry	103	ND	**29.1**	*	75-125			MS-07
Arsenic	97.9	2.6	mg/Kg dry	103	ND	94.9		75-125			
Barium	394	2.6	mg/Kg dry	103	298	92.9		75-125			
Beryllium	88.7	0.26	mg/Kg dry	103	ND	86.0		75-125			
Cadmium	83.0	0.26	mg/Kg dry	103	0.362	80.1		75-125			
Calcium	4410	7.7	mg/Kg dry	103	4150	**257**	*	75-125			MS-19
Chromium	212	0.52	mg/Kg dry	103	116	93.4		75-125			
Cobalt	108	2.6	mg/Kg dry	103	22.0	83.8		75-125			
Copper	115	0.52	mg/Kg dry	103	17.3	94.8		75-125			
Iron	41500	13	mg/Kg dry	103	40800	**660**	*	75-125			MS-19
Lead	83.9	0.77	mg/Kg dry	103	3.25	78.3		75-125			
Magnesium	22700	39	mg/Kg dry	103	22500	**238**	*	75-125			MS-19
Manganese	691	0.52	mg/Kg dry	103	627	**62.4**	*	75-125			MS-19
Nickel	150	0.52	mg/Kg dry	103	66.5	81.1		75-125			
Potassium	17100	100	mg/Kg dry	1030	15800	125		75-125			
Selenium	78.6	5.2	mg/Kg dry	103	ND	76.2		75-125			
Silver	90.9	0.52	mg/Kg dry	103	ND	88.1		75-125			
Sodium	799	100	mg/Kg dry	103	604	**189**	*	75-125			MS-19
Thallium	81.7	2.6	mg/Kg dry	103	ND	79.3		75-125			
Vanadium	203	1.0	mg/Kg dry	103	104	95.9		75-125			
Zinc	162	1.0	mg/Kg dry	103	75.5	84.1		75-125			
Batch B064425 - SW-846 3050B											
Blank (B064425-BLK1)				Prepared: 12/11/12 Analyzed: 12/13/12							
Aluminum	ND	2.5	mg/Kg wet								
Antimony	ND	2.5	mg/Kg wet								
Arsenic	ND	2.5	mg/Kg wet								
Barium	ND	2.5	mg/Kg wet								
Beryllium	ND	0.25	mg/Kg wet								
Cadmium	ND	0.25	mg/Kg wet								
Calcium	ND	7.5	mg/Kg wet								
Chromium	ND	0.50	mg/Kg wet								
Cobalt	ND	2.5	mg/Kg wet								
Copper	ND	0.50	mg/Kg wet								
Iron	ND	2.5	mg/Kg wet								
Lead	ND	0.75	mg/Kg wet								
Magnesium	ND	7.5	mg/Kg wet								
Manganese	ND	0.50	mg/Kg wet								
Nickel	ND	0.50	mg/Kg wet								
Potassium	ND	100	mg/Kg wet								
Selenium	ND	5.0	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								
Sodium	ND	100	mg/Kg wet								
Thallium	ND	2.5	mg/Kg wet								
Vanadium	ND	1.0	mg/Kg wet								
Zinc	ND	1.0	mg/Kg wet								

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064425 - SW-846 3050B										
LCS (B064425-BS1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7280	5.0	mg/Kg wet	8360		87.1	40.4-159.1			
Antimony	92.2	5.0	mg/Kg wet	92.9		99.2	8.2-191.6			
Arsenic	82.3	5.0	mg/Kg wet	94.5		87.1	82.2-117.5			
Barium	150	5.0	mg/Kg wet	166		90.4	83.1-116.3			
Beryllium	50.2	0.50	mg/Kg wet	52.6		95.4	83.8-116.2			
Cadmium	56.6	0.50	mg/Kg wet	59.9		94.5	84-115.9			
Calcium	5530	15	mg/Kg wet	6160		89.8	82.3-117.5			
Chromium	63.7	0.99	mg/Kg wet	69.3		91.9	81.4-118.6			
Cobalt	98.7	5.0	mg/Kg wet	101		97.7	83.8-115.8			
Copper	72.3	0.99	mg/Kg wet	78.0		92.7	83.7-116.2			
Iron	11500	5.0	mg/Kg wet	12800		89.9	50.6-149.2			
Lead	75.9	1.5	mg/Kg wet	91.7		82.8	82.4-117.8			
Magnesium	2730	15	mg/Kg wet	3030		90.2	76.2-123.8			
Manganese	267	0.99	mg/Kg wet	283		94.5	81.6-118			
Nickel	51.0	0.99	mg/Kg wet	56.6		90.2	82.2-117.8			
Potassium	3520	200	mg/Kg wet	3820		92.2	73.6-126.4			
Selenium	139	9.9	mg/Kg wet	159		87.5	79.2-120.8			
Silver	29.2	0.99	mg/Kg wet	33.9		86.2	66.4-133.9			
Sodium	611	200	mg/Kg wet	652		93.7	73.6-126.2			
Thallium	106	5.0	mg/Kg wet	119		89.0	81.1-119.3			
Vanadium	55.8	2.0	mg/Kg wet	56.3		99.1	72.8-127.2			
Zinc	121	2.0	mg/Kg wet	137		88.0	81-119			
LCS Dup (B064425-BSD1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Aluminum	7160	5.0	mg/Kg wet	8360		85.7	40.4-159.1	1.61	30	
Antimony	97.3	5.0	mg/Kg wet	92.9		105	8.2-191.6	5.35	30	
Arsenic	82.3	5.0	mg/Kg wet	94.5		87.1	82.2-117.5	0.0673	30	
Barium	151	5.0	mg/Kg wet	166		91.1	83.1-116.3	0.707	30	
Beryllium	50.3	0.50	mg/Kg wet	52.6		95.6	83.8-116.2	0.267	30	
Cadmium	55.8	0.50	mg/Kg wet	59.9		93.1	84-115.9	1.47	30	
Calcium	5480	15	mg/Kg wet	6160		88.9	82.3-117.5	1.03	30	
Chromium	62.9	0.99	mg/Kg wet	69.3		90.8	81.4-118.6	1.19	30	
Cobalt	98.0	5.0	mg/Kg wet	101		97.0	83.8-115.8	0.661	30	
Copper	70.6	0.99	mg/Kg wet	78.0		90.5	83.7-116.2	2.36	30	
Iron	11300	5.0	mg/Kg wet	12800		88.3	50.6-149.2	1.86	30	
Lead	77.6	1.5	mg/Kg wet	91.7		84.6	82.4-117.8	2.12	30	
Magnesium	2760	15	mg/Kg wet	3030		90.9	76.2-123.8	0.765	30	
Manganese	266	0.99	mg/Kg wet	283		93.8	81.6-118	0.671	30	
Nickel	49.5	0.99	mg/Kg wet	56.6		87.5	82.2-117.8	3.01	30	
Potassium	3570	200	mg/Kg wet	3820		93.6	73.6-126.4	1.46	30	
Selenium	137	9.9	mg/Kg wet	159		86.0	79.2-120.8	1.70	30	
Silver	28.9	0.99	mg/Kg wet	33.9		85.4	66.4-133.9	0.955	30	
Sodium	602	200	mg/Kg wet	652		92.4	73.6-126.2	1.34	30	
Thallium	106	5.0	mg/Kg wet	119		89.1	81.1-119.3	0.115	30	
Vanadium	55.1	2.0	mg/Kg wet	56.3		97.9	72.8-127.2	1.29	30	
Zinc	120	2.0	mg/Kg wet	137		87.8	81-119	0.331	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064425 - SW-846 3050B										
MRL Check (B064425-MRL1)				Prepared: 12/11/12 Analyzed: 12/12/12						
Lead	0.683	0.74	mg/Kg wet	0.735		92.9	85-115			
Batch B064426 - SW-846 7471										
Blank (B064426-BLK1)				Prepared & Analyzed: 12/12/12						
Mercury	ND	0.025	mg/Kg wet							
LCS (B064426-BS1)				Prepared & Analyzed: 12/12/12						
Mercury	4.43	0.33	mg/Kg wet	3.73		119	71.7-128.3			
LCS Dup (B064426-BSD1)				Prepared & Analyzed: 12/12/12						
Mercury	3.48	0.33	mg/Kg wet	3.73		93.4	71.7-128.3	23.8	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064254 - % Solids										
Duplicate (B064254-DUP1)		**Source: 12L0189-56**		Prepared: 12/07/12 Analyzed: 12/08/12						
% Solids	41.8		% Wt		45.1			7.59	20	
Duplicate (B064254-DUP2)		**Source: 12L0189-01**		Prepared: 12/07/12 Analyzed: 12/08/12						
% Solids	82.8		% Wt		84.2			1.68	20	
Batch B064343 - SW-846 9014										
Blank (B064343-BLK1)				Prepared & Analyzed: 12/11/12						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B064343-BS1)				Prepared & Analyzed: 12/11/12						
Cyanide	62	2.3	mg/Kg wet	53.5		115	80-120			
LCS Dup (B064343-BSD1)				Prepared & Analyzed: 12/11/12						
Cyanide	63	2.3	mg/Kg wet	53.8		117	80-120	2.01	20	
Matrix Spike (B064343-MS1)		**Source: 12L0189-35**		Prepared & Analyzed: 12/11/12						
Cyanide	24	0.57	mg/Kg dry	19.2	6.4	93.7	75-125			
Matrix Spike Dup (B064343-MSD1)		**Source: 12L0189-35**		Prepared & Analyzed: 12/11/12						
Cyanide	25	0.59	mg/Kg dry	19.9	6.4	91.4	75-125	0.855	35	
Batch B064381 - % Solids										
Duplicate (B064381-DUP1)		**Source: 12L0189-09**		Prepared: 12/11/12 Analyzed: 12/12/12						
% Solids	91.7		% Wt		91.6			0.109	20	
Batch B064411 - SW-846 9014										
Blank (B064411-BLK1)				Prepared & Analyzed: 12/12/12						
Cyanide	ND	0.50	mg/Kg wet							
LCS (B064411-BS1)				Prepared & Analyzed: 12/12/12						
Cyanide	62	2.3	mg/Kg wet	54.0		115	80-120			
LCS Dup (B064411-BSD1)				Prepared & Analyzed: 12/12/12						
Cyanide	59	2.3	mg/Kg wet	54.2		109	80-120	5.18	20	
Matrix Spike (B064411-MS1)		**Source: 12L0189-40**		Prepared & Analyzed: 12/12/12						
Cyanide	15	0.43	mg/Kg dry	14.4	ND	101	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064411 - SW-846 9014										
Matrix Spike Dup (B064411-MSD1)		**Source: 12L0189-40**		Prepared & Analyzed: 12/12/12						
Cyanide	14	0.43	mg/Kg dry	14.3	ND	97.4	75-125	4.72	35	
Batch B064505 - SW-846 9014										
Blank (B064505-BLK1)				Prepared & Analyzed: 12/13/12						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B064505-BS1)				Prepared & Analyzed: 12/13/12						
Cyanide	53	2.3	mg/Kg wet	54.2		97.9	80-120			
LCS Dup (B064505-BSD1)				Prepared & Analyzed: 12/13/12						
Cyanide	57	2.3	mg/Kg wet	54.7		104	80-120	7.02	20	
Matrix Spike (B064505-MS1)		**Source: 12L0189-50**		Prepared & Analyzed: 12/13/12						
Cyanide	13	0.41	mg/Kg dry	13.7	ND	91.6	75-125			
Matrix Spike Dup (B064505-MSD1)		**Source: 12L0189-50**		Prepared & Analyzed: 12/13/12						
Cyanide	13	0.44	mg/Kg dry	14.8	ND	88.7	75-125	4.44	35	
Batch B064578 - SW-846 9014										
Blank (B064578-BLK1)				Prepared & Analyzed: 12/14/12						
Cyanide	ND	0.50	mg/Kg wet							
LCS (B064578-BS1)				Prepared & Analyzed: 12/14/12						
Cyanide	63	2.3	mg/Kg wet	54.5		115	80-120			
LCS Dup (B064578-BSD1)				Prepared & Analyzed: 12/14/12						
Cyanide	63	2.3	mg/Kg wet	54.9		114	80-120	0.0911	20	
Matrix Spike (B064578-MS1)		**Source: 12L0189-19**		Prepared & Analyzed: 12/14/12						
Cyanide	16	0.52	mg/Kg dry	17.2	ND	93.9	75-125			
Matrix Spike Dup (B064578-MSD1)		**Source: 12L0189-19**		Prepared & Analyzed: 12/14/12						
Cyanide	17	0.49	mg/Kg dry	16.2	ND	103	75-125	3.16	35	
Batch B064700 - SW-846 9014										
Blank (B064700-BLK1)				Prepared & Analyzed: 12/15/12						
Cyanide	ND	0.50	mg/Kg wet							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B064700 - SW-846 9014										
LCS (B064700-BS1)				Prepared & Analyzed: 12/15/12						
Cyanide	57	2.1	mg/Kg wet	50.4		113	80-120			
LCS Dup (B064700-BSD1)				Prepared & Analyzed: 12/15/12						
Cyanide	55	2.2	mg/Kg wet	52.6		104	80-120	3.72	20	
Matrix Spike (B064700-MS1)		**Source: 12L0189-12**		Prepared & Analyzed: 12/15/12						
Cyanide	19	0.57	mg/Kg dry	19.0	0.47	98.0	75-125			
Matrix Spike Dup (B064700-MSD1)		**Source: 12L0189-12**		Prepared & Analyzed: 12/15/12						
Cyanide	17	0.52	mg/Kg dry	17.3	0.47	94.9	75-125	12.1	35	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
SW-846 6010C in Soil	
Aluminum	CT,NH,NY,ME,VA
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Calcium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Cobalt	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Magnesium	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Sodium	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,RI,NC,ME,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

con-test ANALYTICAL LABORATORY
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CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC
Address: 400 Southborough Dr
South Portland, ME 04106
Attention: Charlie Springer
Project Location: Windham, ME
Sampled By: C. Springer

Telephone: 207-274-2615
Project #: 191981
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ☒ WEBSITE
Fax #:
Email: CSPRINGER@TRCsolutions.com
Format: ☒ PDF ☒ EXCEL ○ GIS ☒ OTHER EGAD
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (Soxhlet)	EPH + Target S	TAL Metals	Cyanide	TCLP/SPLP Lead/HOLD							# of Containers
								I	I	I	I	I							** Preservation
								A	A	A	A	A							***Container Code
13	T-GP-5(1-1.5) R	12/10/12	1230		X	S	A	X	X	X	X								
17	T-GP-7(0-1) R	12/10/12	1250		X	S	A	X	X	X	X								
18	T-GP-7(1-2.5) R	12/10/12	1300		X	S	A	X	X	X	X								
19	T-GP-8(0-1) R	12/10/12	1315		X	S	A	X	X	X	X								
23	T-GP-10(0-1) R	12/10/12	1330		X	S	A	X	X	X	X								
29	T-GP-13(0-1) R	12/10/12	1345		X	S	A					X	HOLD						
57	T-GP-18(0-1) R	12/10/12	1400		X	S	A	X	X	X	X								
	~~T-GP-18(1-)R~~	~~12/10/12~~			X	S	A	X	X	X	X								
58	T-GP-19(0-1) R	12/10/12	1430		X	S	A	X	X	X	X								

Comments: HOLD T-GP-13(0-1)R FOR TCLP/SPLP Lead

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metal
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 12/10/12 1700	
Received by: (signature) Terry McGee 4.2°C	Date/Time: 12/11/12 10:14	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Turnaround ††
☒ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: None

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

FedEx.

876902141706

Ship (P/U) date :
Mon 12/10/2012 5:31 pm
SPO US

Delivered
Signed for by: M.KOPY

Actual delivery :
Tues 12/11/2012 10:14 am
US

Travel History

Date/Time	Activity	Location
- 12/11/2012 - Tuesday		
10:14 am	Delivered	
7:59 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:48 am	At local FedEx facility	WINDSOR LOCKS, CT
6:56 am	At destination sort facility	EAST GRANBY, CT
3:54 am	Departed FedEx location	MEMPHIS, TN
- 12/10/2012 - Monday		
11:48 pm	Arrived at FedEx location	MEMPHIS, TN
8:09 pm	Left FedEx origin facility	PORTLAND, ME
5:31 pm	Picked up	PORTLAND, ME

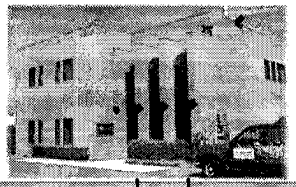
Local Scan Time

Shipment Facts

Tracking number	876902141706	**Service**	FedEx Priority Overnight
Dimensions	21x15x15 in.	**Delivered To**	Shipping/Receiving
Total pieces	1	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Direct Signature Required, Additional Handling Surcharge		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: TRC **RECEIVED BY:** KKM **DATE:** 12/11/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [✓] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.2

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	15
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Drive
South Portland, ME 04106
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 274 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 spike+, cyanide, EPH	TAL 23 Metals, % Solids	TCLP Lead, SPLP Lead Hold All	# of Containers	** Preservation	***Container Code
01 ✓	T-GP-1 (0-1)	12/4/12	0945		X	S		X	X		1	I	A
02 ✓	T-GP-1 (4-6.5)	12/4/12	0950					X	X	X	1	I	A
03 X	T-GP-1 (7-9) Hold	12/4/12	1000					X	X		1	I	A
04 ✓	T-GP-2 (0-1)	12/4/12	1050					X	X		1	I	A
05 X	T-GP-2 (2-6)	12/4/12	1055					X	X	X	1	I	A
06 X	T-GP-2 (6-8) Hold	12/4/12	1105					X	X		1	I	A
07 ✓	T-GP-3 (0-1)	12/4/12	1145					X	X		1	I	A
08 ✓	T-GP-3 (1-1.5)	12/4/12	1150					X	X	X	1	I	A
09 ✓	T-GP-3 (5-7) Hold	12/4/12	1155					X	X		1	I	A
10 X	T-GP-4 (0-1)	12/4/12	1225					X	X	X	1	I	A

Comments:
Hold TCLP + SPLP Lead
Note other holds above
sample dates 12/4/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Dissolved Metal
○ Field Filtered
○ Lab to Filter

Relinquished by: (signature)	Date/Time:
Stephen Mayer 12/6/12	1225
Received by: (signature) Tony [illegible] 12/6/12	Date/Time: 1225
Relinquished by: (signature) [illegible] 12/6/12	Date/Time: 423
Received by: (signature) 12/6/12	Date/Time: 1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: Charlie 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Hayes

Telephone: 207 774 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8 oz soxhlet, cyanide, EPH	TAL 23 Metals, % Solids	TCLP lead + SPLP lead Hold All	Don't run									# of Containers	** Preservation	***Container Code
11	T-GP-4 (4-6) hold	12/4/12	1230		X	S		X	X											1	1	A
12	T-GP-5 (0-1)	↓	1255		↓	↓		X	X											1	1	A
13	T-GP-5 (1-1.5)		1300					X	X	X	X									1	1	A
14	T-GP-5 (6-8) hold		1305					X	X													
15	T-GP-6 (0-1)		1325					X	X													
16	T-GP-6 (1.5-3.5) hold		1330					X	X													
17	T-GP-7 (0-1)		1400					X	X	X	X											
18	T-GP-7 (1-2.5) hold		1405					X	X		X											
19	T-GP-8 (0-1)		1430					X	X		X											
20	T-GP-8 (1-2.5) hold	↓	1435		↓	↓		X	X		X											

Comments: Hold TCLP & SPLP sample dates 12/4/12
Note: Holds above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

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○ Field Filtered
○ Lab to Filter

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S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
Stephen Hayes 12/6/12	1225
Received by: (signature) Bobby Kelly 12/6/12	Date/Time: 1225
Relinquished by: (signature) Bobby Kelly 12/6/12	Date/Time: 423
Received by: (signature) 12/6/12	Date/Time: 1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

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NELAC & AIHA-LAP, LLC Accredited
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CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southbrough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayor

Telephone: 207 274 2615
Project # 191881
Client PO# 51725

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: CSpringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 Soxhlet, cyanide, EPH	% solids, TAL 23 Metals	TCLP + SPLP Lead (Hold All)	Dont run											# of Containers	** Preservation	***Container Code
																						1	1	1
								A	A	A												A	A	A
21	T-GP-9 (0-1)	12/5/12	1455		X	X		X	X															
22	T-GP-9 (2.5-6.5) hold		1500					X	X															
23	T-GP-10 (0-1)		1530					X	X			X												
24	T-GP-10 (1-3) hold		1535					X	X															
25	T-GP-11 (0-1)	12/5/12	0850					X	X															
26	T-GP-11 (1-3) hold		0855					X	X															
27	T-GP-12 (0-1)		0920					X	X															
28	T-GP-12 (1-3) hold		0925					X	X															
29	T-GP-13 (0-1)		1000					X	X	X														
30	Dup-1							X	X	X														

Comments: Hold All TCLP + SPLP
Note holds above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

*Dissolved Metal
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
Stephen Mayor 12/6/12	1225
Received by: (signature) Robert Wiley 12/6/12	1225
Relinquished by: (signature) Robert Wiley 12/6/12	425
Received by: (signature) 12/6/12	1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12L0189

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 274 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 soxhlet, cyanide, EPH	% solids, TAL 23 Metals	TCLP & SPLP lead (Hold All)	# of Containers	** Preservation	***Container Code
31	T-GP-13 (1-3) hold	12/6/12	1005		X	S		X	X		1	I	A
32	T-GP-14 (0-1)		1035					X	X		1	I	A
33	T-GP-14 (1.5-5.5)		1040					X	X	X	1	I	A
34	T-GP-14 (6-7) hold		1045					X	X				
35	T-GP-15 (0-1)		1145					X	X				
36	T-GP-15 (1-1.5)		1150					X	X	X			
37	T-GP-15 (2-6) hold		1155					X	X				
38	T-GP-16 (0-1)		1240					X	X	X			
39	Dup-2							X	X	X			
40	T-GP-16 (1-2.5) hold		1245					X	X				

Comments: Hold all TCLP & SPLP
Note other holds above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Dissolved Metal
○ Field Filtered
○ Lab to Filter

Relinquished by: (signature)	Date/Time:
Stephen Mayer 12/6/12	1225
Received by: (signature) Ebony Wiley 12/6/12	Date/Time: 1225
Relinquished by: (signature) Ebony Wiley 12/6/12	Date/Time: 1225
Received by: (signature) 12/6/12	Date/Time: 1223

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

12L0189

39 Spruce Street
East longmeadow, MA 01028

Company Name: TRC Solutions
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: SM

Telephone: 207 274 2615
Project # 191981
Client PO# 51725

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: cspringer@trcsolutions.com
Format: ☒ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 soxhlet, cyanide, EPH	% Solids, TAL 23 Metals	TCLP & SPLP (lead (hold))									# of Containers
								1	1	1									** Preservation
								A	A	A									***Container Code
41	T-GP-17 (0-1)	12/5/12	1345		X	S		X	X										
42	T-GP-17 (1-5.5)		1350					X	X	X									
43	T-GP-17 (10-12) hold		1355					X	X										
44	H-GP-1 (0-1)		1445					X	X										
45	H-GP-1 (1.5-5.5)		1450					X	X	X									
46	H-GP-1 (10-11) hold		1455					X	X										
47	H-GP-2 (0-1)		1530					X	X										
48	H-GP-2 (1-6)		1535					X	X	X									
49	H-GP-2 (6.5-7.5) hold		1540					X	X										
50	H-GP-3 (0-1)		1600					X	X										

Comments: Hold all TCLP & SPLP
Note other holds above

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Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
Stephen Hogan	12/6/12 1225
Received by: (signature)	Date/Time:
Fabian Wilky	12/6/12 1225
Relinquished by: (signature)	Date/Time:
Fabian Wilky	12/6/12 1425
Received by: (signature)	Date/Time:
	12/6/12 1623

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

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ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

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12L0189

Company Name: TRC Environmental
Address: 400 Southborough Dr
South Portland ME
Attention: Charlie Springer
Project Location: Windham ME
Sampled By: Stephen Mayer

Telephone: 207 774 2615
Project # 191981
Client PO# 51725

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O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082 Sombot, cyanide, EPH	% Solids, TAL23 Metals	TCLP & SPLP Lead (hold all)	# of Containers	** Preservation	***Container Code
51 ✓	H-GP-3 (2.5-3.5)	12/6/12	1605		X	S		X	X	X	1	I	A
52 ✓	H-GP-3 (5-7) hold	12/6/12	1610					X	X		1	I	A
53 X	T-Bank-4-1	12/6/12	0900					X	X		1	I	A
54 ✓	T-Bank-4-2	12/6/12	0910					X	X		1	I	A
55 ✓	T-Bank-4-3	12/6/12	0915					X	X		1	I	A
56 ✓	T-Bank-4-4	12/6/12	0925					X	X		1	I	A

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
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*Matrix Code:
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WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: Hold all TCLP & SPLP
Note other hold above

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Stephen Mayer	12/6/12 1225
Received by: (signature)	Date/Time:
Fabian Lilly	12/6/12 1225
Relinquished by: (signature)	Date/Time:
Fabian Lilly	12/6/12 425
Received by: (signature)	Date/Time:
	12/6/12 1623

Turnaround ††
☐ 7-Day
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ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene See whatcom.org for details

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# containers	sample name
	8 1-2.5 (both)
	8 0-1 (both)
11	7 0-1 both
11	7 1-2.5 both
	6 1.5-3.5 1 jar
	6 0-1 1 jar
11	5 0-1 1 jar
111	5 1-1.5 all three
11	4 4-6 both jars
11	4 0-1 1 jar
11	9 0-1 1 jar
11	9 2.5-6.5 both
	8 1-2.5 both
	8 0-1 both
11	10 1-3 both
11	10 0-1 both

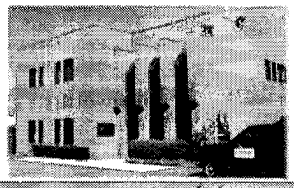
1	1 7-4
1	2 6-8 both
	1 4-6.5
	1 7-9 X both jars
	2-(2-6) X 1 jar

5 (0-6) 1 jar

T-B-4-1 (1 jar)
↳ 32

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: TRC **RECEIVED BY:** VA/CFC **DATE:** 12/10

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

* attached sheet lists samples submerged in water

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.7

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	14
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	112	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: one cooler received with samples submerged under water

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

APPENDIX D

Soil Sampling
Little Falls
Windham, ME

Data Usability Assessment
Prepared: December 28, 2012

A. Overall Summary

The data associated with soil samples collected from November 6 through November 8, 2012 and December 4 through December 10, 2012 were reviewed. In general, data are usable for project decisions based on a review of accuracy, precision, and sensitivity of the data. Although there were select quality control (QC) nonconformances, the data are valid as reported and may be used for decision-making purposes with the following cautions and limitations.

- The field duplicate results for EPH in sample T-Bank-4/0-0.5 are significantly higher than the original sample results and in some cases exceed the project action levels. In order to remain conservative, the results from the field duplicate sample should be used at this location.

- The field duplicate results for the detected PAHs in sample T-GP-13/0-1 are significantly higher than the original sample results. In order to remain conservative, the detected PAH results from the field duplicate sample should be used at this location. The original sample results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics are significantly higher than the field duplicate results and in the case of C_{11}-C_{22} aromatics exceed the project action levels. In order to remain conservative, the results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics from the original sample should be used at this location.

- Caution should be used with the antimony result in sample T-GP-14/0-1 due to low recovery in the Matrix Spike (MS) analysis. The result for antimony in sample T-GP-14/0-1 is just slightly below the project action levels and therefore the decision-making process may be affected by the low bias. Caution should be used with this result as the actual result may be higher and above the project action levels.

Soil Samples Included in the Data Usability Assessment:
November 2012: H-TP-1 (0-1, 2-3, 4-5), H-TP-2 (0-1), H-TP-3 (0-1, 2-4, 4-5), H-TP-4 (0-1, 5-6, 12-14)
T-Bank-1 (0-0.5), T-Bank-2 (0-0.5), T-Bank-3 (0-0.5), T-Bank-4 (0-0.5)
T-HA-5, T-HA-9, T-SWD-1 (0-0.5), T-SWD-2 (0-0.5), T-TP-1 (0-1, 8-10, 12-13), T-TP-2 (0-1, 3-4), T-TP-3 (0-1, 3-5.5), T-TP-4 (0-1, 1-3, 4-5), T-TP-5 (0-1, 2.5-3.5, 8-9), T-TP-6 (0-1, 1-2, 3.5-5), T-TP-7 (0-1, 2-3, 5-6), T-TP-8 (0-1, 3-4), T-TP-9 (0-1, 3-4), T-TP-10 (0-1, 2-3)
December 2012: T-Bank-4-1 (0-0.5), T-Bank-4-2 (0-0.5), T-Bank-4-3 (0-0.5), T-Bank-4-4 (0-0.5)
H-GP-1 (0-1, 1.5-5.5, 10-11), H-GP-2 (0-1, 1-6, 6.5-7.5), H-GP-3 (0-1, 2.5-3.5, 5-7)
T-GP-1 (0-1, 4-6.5), T-GP-2 (0-1, 2-6), T-GP-3 (0-1, 1-1.5, 5-7), T-GP-4 (0-1), T-GP-5 (0-1, 1-1.5, 6-8), T-GP-6 (0-1), T-GP-7R (0-1), T-GP-7R (1-2.5),T-GP-8R (0-1), T-GP-9 (0-1), T-GP-10R (0-1), T-GP-11 (0-1), T-GP-12 (0-1), T-GP-13 (0-1, 1-3), T-GP-14 (0-1, 1.5-5.5, 6-7), T-GP-15 (0-1, 1-1.5, 2-6), T-GP-16 (0-1, 1-2.5), T-GP-17 (0-1, 1-5.5, 10-12), T-GP-18R (0-1), T-GP-19R (0-1)

Field Duplicates:
November 2012: T-TP-5/0-1 (EPH, PCB Aroclors, metals, total cyanide), T-TP-10/0-1 (EPH, PCB Aroclors, metals, total cyanide), H-TP-4/0-1 (EPH, PCB Aroclors, metals, total cyanide), T-Bank-4/0-0.5 (EPH, PCB Aroclors, metals, total cyanide)
December 2012: T-GP-13/0-1 (EPH, PCB Aroclors, metals, total cyanide), T-GP-16/0-1 (EPH, PCB Aroclors, metals, total cyanide)

Matrix Spike/Matrix Spike Duplicates (MSDs):
November 2012: T-TP-1/0-1 (EPH, PCB Aroclors, metals), T-TP-4/4-5 (total cyanide), T-TP-5/2.5-3.5 (PCB Aroclors), T-TP-6/3.5-5 (metals), T-TP-8/0-1 (EPH, PCB Aroclors), H-TP-3/2-4 (total cyanide), H-TP-4/0-1 (PCB Aroclors), T-Bank-1/0-0.5 (metals), T-SWD-1/0-0.5 (total cyanide), T-HA-5 (total cyanide)
December 2012: H-GP-1/0-1 (metals), H-GP-3/0-1 (total cyanide), T-GP-2/0-1 (EPH), T-GP-2/2-6 (TCLP lead), T-GP-3/5-7 (PCB Aroclors, metals), T-GP-5/0-1 (total cyanide), T-GP-5/1-1.5 (PCB Aroclors), T-GP-8/0-1 (total cyanide), T-GP-15/0-1 (total cyanide), T-GP-16/1-2.5 (total cyanide), T-GP-17/0-1 (EPH), T-GP-19R/0-1 (PCB Aroclors)

Soil Analyses Performed: EPH, PCB Aroclors, metals, total cyanide, TCLP lead, SPLP lead

B. Sensitivity Evaluation

Sensitivity was not acceptable for arsenic in select soil samples (i.e., nondetect results exhibited quantitation limits [QLs] above the applicable Maine DEP Remedial Action Guidelines for Residential, Park User and Outdoor Commercial Worker exposure scenarios). It should be noted that all nondetect results for arsenic exhibited QLs below the applicable Maine DEP Remedial Action Guidelines for Excavation/Construction Worker exposure scenarios. Since the QLs for arsenic were not significantly above the project action levels (<2x the project action levels) in select samples, the overall usability of the data was not adversely affected.

Sensitivity was not acceptable for benzo(a)pyrene in sample T-Bank-4-3/0-0.5 and dibenz(a,h)anthracene in samples T-Bank-4-3/0-0.5 and T-GP-2/2-6 (i.e., nondetect results exhibited QLs above the applicable Maine DEP Remedial Action Guidelines for Residential and Park User exposure scenarios). It should be noted that the nondetect results for these PAHs exhibited QLs below the applicable Maine DEP Remedial Action Guidelines for Outdoor Commercial Worker and Excavation/Construction Worker exposure scenarios. Since the QLs for these PAHs were not significantly above the project action levels (<2x the project action levels) in select samples, the overall usability of the data was not adversely affected.

The nondetect results in all soil samples for PCB Aroclors and all remaining EPH analytes and metals were below all exposure scenarios in the Maine DEP Remedial Action Guidelines.

C. Evaluation of Accuracy and Precision: Soil

Biases and uncertainty associated with the EPH, PCB Aroclor, metals and total cyanide analyses of the soil samples are discussed below.

C-1. Low-Biased Results

Potential low bias exists for antimony in sample T-GP-14/0-1 due to low recovery in the MS analysis. The result for antimony in sample T-GP-14/0-1 should be used with caution due to this low bias; this result is slightly below the project action levels and therefore the decision-making process may be affected.

In general, the overall data usability and decision-making process were not affected by the remaining QC nonconformances, as shown in the table below.

Samples Affected	Analytes Affected	Reason for Low Bias	Reason Data Usability or Decision-making Process Not Affected
All November soil samples	Antimony, manganese, selenium	Low recoveries in MS analyses	Results for affected metals significantly below project action levels in all affected samples.
All December soil samples except T-GP-14/0-1	Antimony	Low recoveries in MS analyses	Results for antimony significantly below project action levels in all affected samples.

Samples Affected	Analytes Affected	Reason for Low Bias	Reason Data Usability or Decision-making Process Not Affected
T-TP-6 (0-1, 1-2, 3.5-5), T-TP-7 (0-1, 2-3, 5-6), T-TP-8 (0-1, 3-4), T-TP-9 (0-1, 3-4), T-TP-10 (0-1, 2-3), T-SWD-1 (0-0.5), T-SWD-2 (0-0.5)	Total cyanide	Low recovery in LCS Duplicate	Results for cyanide significantly below project action levels in all affected samples.
T-GP-17/0-1	C_9-C_{18} Aliphatics	Low recovery in MS	Results for C_9-C_{18} Aliphatics significantly below project action levels in sample T-GP-17/0-1.

C-2. High-Biased Results

Potential high bias exists for select results due to various QC nonconformances. In general, the overall data usability and decision-making process were not affected by these QC nonconformances, as shown in the table below.

Samples Affected	Analytes Affected	Reason for High Bias	Reason Data Usability or Decision-making Process Not Affected
T-TP-1/0-1, H-TP-4/0-1	Aroclor 1260	High recoveries in MS/MSD analyses	Aroclor 1260 not detected in affected samples and total PCBs detected below project action levels.
All November soil samples	Sodium	High recovery in MS analysis	No project action levels exist for sodium.
T-GP-2/2-6, T-GP-3/0-1, T-GP-3/1-1.5, T-GP-4/0-1, T-GP-5/0-1, T-GP-6/0-1, T-GP-9/0-1, T-GP-11/0-1, T-GP-12/0-1, T-GP-13/0-1, T-GP-14/0-1, T-GP-14/1.5-5.5, T-GP-15/0-1, T-GP-15/1-1.5, T-GP-16/0-1, T-GP-17/0-1, T-GP-17/1-5.5, H-GP-1/0-1	Copper	Method blank contamination	Results for copper greater than 5x the concentration detected in the method blank in all affected samples.
T-GP-2/2-6, T-GP-3/0-1, T-GP-3/1-1.5, T-GP-4/0-1, T-GP-5/0-1, T-GP-6/0-1, T-GP-9/0-1, T-GP-11/0-1, T-GP-12/0-1, T-GP-13/0-1, T-GP-14/0-1, T-GP-14/1.5-5.5, T-GP-15/0-1, T-GP-15/1-1.5, T-GP-16/0-1, T-GP-17/0-1, T-GP-17/1-5.5, H-GP-1/0-1	Lead	High recovery in low-level check standard	Results for lead significantly above the QL in all affected samples.

C-3. Potential Uncertainty

Potential uncertainty exists for the EPH results in sample T-Bank-4/0-0.5 due to field duplicate variability. The field duplicate results for all hydrocarbon ranges and target analytes are significantly higher than the original sample results. In order to remain conservative, the results from the field duplicate sample should be used at this location.

Potential uncertainty exists for the EPH results in sample T-GP-13/0-1 due to field duplicate variability. The field duplicate results for the detected PAHs are significantly higher than the original sample results. In order to remain conservative, the detected PAH results from the field duplicate sample should be used at this location. The original sample results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics are significantly higher than the field duplicate results. In order to remain conservative, the results for the C_{19}-C_{36} aliphatics and C_{11}-C_{22} aromatics from the original sample should be used at this location.

In general, the overall data usability and decision-making process were not affected by the remaining QC nonconformances, as shown in the table below.

Samples Affected	Analytes Affected	Reason for Uncertainty	Reason Data Usability or Decision-making Process Not Affected
All November soil samples	Barium	Low and high recoveries in MS analyses	Results for barium significantly below project action levels in all affected samples.
All November soil samples	Potassium, iron	Laboratory duplicate variability	Results for iron significantly below project action levels in all affected samples; no project action levels exist for potassium.
T-TP-5/0-1	EPH hydrocarbon ranges, antimony, arsenic, copper, lead, mercury	Field duplicate variability	Results for arsenic and lead consistently above project action levels in original and field duplicate samples. Results for EPH hydrocarbon ranges, antimony, copper and mercury consistently and significantly below project action levels in original and field duplicate samples.
T-TP-10/0-1	Potassium	Field duplicate variability	No project action levels exist for potassium.
H-TP-4/0-1	Sodium	Field duplicate variability	No project action levels exist for sodium.

APPENDIX C
Human Health Risk Assessment Documentation

APPENDIX C
HUMAN HEALTH RISK ASSESSMENT

1.0 INTRODUCTION

This section of the report contains a baseline human health risk assessment for the Little Falls Site, based on soil data collected in 2012. The focus of this risk assessment is the quantitative, and in some cases qualitative, evaluation of potential risks to human receptors who have the potential for current and/or future exposure to contaminants in soil. The property consists of an active hydro power station, driveway and parking area, the transmission line and abutting land between the transmission line and the river.

1.1 Purpose and Scope

The purposes of the baseline human health risk assessment are: 1) to evaluate the potential human health risks that may be posed by chemical contamination of the soil within currently accessible and future potentially accessible portions of the property; and 2) to provide a basis for decisions as to whether remedial action is necessary. This baseline risk assessment may also be used qualitatively to identify site conditions (chemicals, exposure pathways, locations) of greatest potential concern.

A baseline risk assessment generally consists of four basic steps summarized below:

- **Hazard Identification.** Determination of the nature and amount of chemicals that could potentially be encountered at a site, and selection of those chemicals that are of potential concern for the assessment of the impact on human health.

- **Exposure Assessment.** Quantification of the extent, frequency, and duration of actual or potential exposure to chemicals by pathways relevant to a site and the activities of potential receptors.

- **Toxicity Assessment.** Identification of the types of health effects that could be associated with exposure to these chemicals, determination of the relationship between exposure (dose) and the probability of occurrence of the health impact (response).

- **Risk Characterization.** Estimation of the probability that an adverse health impact may occur as a result of exposure to chemicals in the amount and by the pathways identified and the uncertainty in those estimates.

The baseline human health risk assessment for the property was conducted using methodologies required by Maine Department of Environmental Protection (MEDEP) risk assessment guidance (MEDEP, 2011), which directs that EPA risk assessment methodology (EPA, 1989; 1991a; 1991c; 1992; 2001; 2004; 2005; 2010; 2011b) should be used when a site-specific risk assessment is performed. Because this baseline risk assessment is intended to be site specific, site-specific information was incorporated into the evaluation whenever possible. However, in

the absence of site-specific information, Maine-specific exposure assumptions (MEDEP, 2011) have been used preferentially over EPA standard default exposure assumptions, when available.

The baseline human health risk assessment provides estimates of risk, under both current use and hypothetical future use scenarios, to the reasonable maximum exposure (RME) receptor. The RME receptor is used to represent the high-end (upper-bound) exposure that is reasonably expected to occur at an exposure point. For the purposes of this risk assessment, it is assumed that Land Use Controls (LUCs) will be implemented at the property to restrict use of the property to current uses (i.e., trespassing, intermittent outdoor and indoor workers) and limited future uses (e.g., long-term construction worker exposures). Exposure pathways and exposure routes are selected based on current and future land use scenarios. Appendix C.4, Table C.4-1 (Selection of Exposure Pathways) provides a conceptual model for the property, identifying the exposure media, exposure points, receptors, and routes of exposure quantitatively evaluated as part of the baseline human health risk assessment.

1.2 Identification of Current/Future Exposure Points and Receptors

The purpose of this section is to describe current and future exposure points and receptors selected for evaluation in the human health risk assessment, based on land use, property characteristics and history.

For the purposed of the risk assessment, three exposure areas have been evaluated: (1) the Hydro Property, the land portion of the Hydro power generation facility; (2) the Northern Transmission Line Property, the northern portion of the transmission line (north of the drainage feature) and the land between the easement and the river; and (3) the South Bank Area, an isolated area along the river bank at the southern end of the transmission line with elevated soil PAHs. The Hydro Property, Northern Transmission Line Property and South Bank Area are evaluated as three separate exposure points in the risk assessment due to unique usage and the spatial separation of the areas.

Current Receptors. The Hydro Property is used as an active power generation facility. Workers visit the facility to inspect the equipment inside the station and may periodically contact surface soil (0 to 2 feet in depth) in the driveway/parking lot area, or track surface soil contaminants into the facility where they may be contacted. Trespassers may occasionally access this area and contact surface soil contaminants. Surface soil exposure during non-intrusive activities has been evaluated (e.g., periodic weed/grass control activities), though these types of activities are not known to be occurring. No intrusive activities are currently occurring at this exposure point.

Non-intrusive workers may contact surface soil contaminants in the Northern Transmission Line Property during monthly inspection of the transmission lines, bimonthly patrolling for trespassers and annual tree trimming/branch grinding activities. Trespassers may access this portion of the property from the river bank or from the adjacent walking trail to the east and contact surface soil. No intrusive activities are currently scheduled to occur at this exposure point.

Surface soil in the South Bank Area is most likely accessible to trespassers only since this area is located along the river bank, away from the transmission lines. However, it is assumed that non-intrusive workers may occasionally contact surface soil in this area during their routine inspections or while patrolling for trespassers. No intrusive activities currently occur at this exposure point.

Trespassers, non-intrusive workers and indoor workers may be exposed to surface soil contaminants via incidental ingestion and dermal contact. Due to the lack of intrusive activities performed by these receptors, the inhalation of fugitive dust is considered negligible and has not been quantitatively evaluated.

Groundwater was not encountered during the investigation as previously discussed. In addition, Leaching to Groundwater Guidelines were not exceeded indicating that if groundwater were present at the Site, it likely would not be significantly impacted. There is no potable or non-ingestion use of groundwater at the property. The power generation facility is connected to the municipal water supply. Sappi intends to prohibit all extraction/use of groundwater in the future with a Uniform Environmental Covenant.

Future Receptors. Current land use is assumed to continue in the future, as specified by the LUCs. However, future improvements or repairs at all three exposure points may, in theory, require excavation or construction activities. Therefore, long-term construction-related exposures to surface soil and subsurface soil (0 to 15 feet) are quantitatively evaluated. For the Northern Transmission Line Property, short-term intrusive work may also be required in the event of utility pole failures. Though pole failures may occur at a low frequency (one to two failures per year), it is assumed that the same workers perform these activities over the duration of their employment (up to 25 years). Contact with both surface and subsurface soil (0 to 15 feet in depth) would occur during the replacement activities. Though the South Bank Area is along the river and away from the transmission line, short-term intrusive work has also been evaluated, consistent with the Northern Transmission Line Property.

Though underground utility work that would require exposures to short-term intrusive workers may occur at the Hydro Property, the long-term construction worker scenario has been used to conservatively evaluate the short-term intrusive worker scenario at this exposure point. Utility repair activities would require less than the 6-month exposure period assumed for the construction worker exposures.

Short-term intrusive workers and long-term construction workers may be exposed to surface and subsurface soil contaminants via incidental ingestion, dermal contact and inhalation of fugitive dust. Because the contaminants present in soil are not considered volatile in nature (high molecular weight PAHs, heavy petroleum hydrocarbon fractions and metals), the inhalation of vapors released from soil during intrusive work is not evaluated as a complete exposure pathway.

Under the assumption that deeper soils are brought to the surface and mixed with the surface soils, the same receptors evaluated for exposures to surface soil under current conditions (i.e., trespassers, indoor workers and non-intrusive workers) have also been evaluated for exposures to both surface and subsurface soil under future conditions.

2.0 HAZARD IDENTIFICATION

The purpose of this section is the determination of the type and amount of chemicals present at the Site and the selection of the COPCs with regard to human health. In addition, this section summarizes the methodology used to determine EPCs for COPCs in each medium.

Environmental data used in this hazard identification are from soil samples that were collected by TRC during November and December 2012. The soil analytical data were grouped by depth and by exposure point.

The following sections summarize the environmental data available for use in the risk assessment for each of the exposure points.

2.1 Hydro Property Data

Surface soil and subsurface soil samples were collected from the Hydro Property. Analytical results of compounds detected in soil are presented in Appendix C.4, Table C.4-2. Sampling locations can be found on Figure 2.

Surface soil samples are defined as the most surficial interval of overburden material. Soil from the 0 to 2 foot depth interval is included as surface soil since these represent contaminant concentrations that humans may currently encounter. Surface soil samples collected from the Hydro Property and quantitatively evaluated in the risk assessment are summarized below:

Sample Name	Sample Depth (feet)
H-TP-1	0-1
H-TP-4	0-1
H-GP-1	0-1
H-GP-2	0-1
H-GP-3	0-1

Subsurface soil samples were also collected from the Hydro Property. Subsurface soil samples are representative of the deeper interval, which human receptors may encounter under future site reuse conditions. The subsurface interval includes soils from 2 to 15 feet below ground surface. Subsurface soil samples collected at the Hydro Property include the following:

Sample Name	Sample Depth (feet)
H-TP-1	2-3 and 4-5
H-GP-1	1.5-5.5
H-GP-2	1-6
H-GP-3	2.5-3.5

Surface soil and subsurface soil analytical data were combined to evaluated exposures to the entire 0 to 15 foot interval for future receptors and intrusive workers. Samples H-TP-2 (0-1’), H-TP-3 (0-1’, 2-4’ and 4-5’), H-TP-4 (5-6’ and 12-14’), H-GP-1 (10-11’), H-GP-2 (6.5-7.5’) and

H-GP-3 (5-7') were not quantitatively evaluated because they displayed either non-detect or background levels of contaminants. Not including these samples in the analysis results in more health-protective (i.e., higher) exposure point concentrations.

2.2 Northern Transmission Line Property Data

Surface soil and subsurface soil samples were collected from the Northern Transmission Line Property. Analytical results of compounds detected in soil are presented in Appendix C.4, Table C.4-2. Sampling locations can be found on Figure 3. Surface soil samples collected from the Northern Transmission Line Property and quantitatively evaluated in the risk assessment are summarized below:

Sample Name	Sample Depth (feet)
T-TP-1	0-1
T-TP-2	0-1
T-TP-3	0-1
T-TP-4	0-1
T-TP-5	0-1
T-TP-7	0-1
T-GP-1	0-1
T-GP-2	0-1
T-GP-3	0-1
T-GP-4	0-1
T-GP-5	0-1 and 1-1.5
T-GP-6	0-1
T-GP-7	0-1 and 1-2.5
T-GP-13	0-1
T-GP-14	0-1
T-GP-15	0-1
T-GP-17	0-1
T-GP-18	0-1
T-Bank-1	0-0.5

Subsurface soil samples were also collected from the Northern Transmission Line Property and include the following:

Sample Name	Sample Depth (feet)
T-TP-1	8-10 and 12-13
T-TP-4	1-3
T-TP-7	2-3 and 5-6
T-GP-2	2-6
T-GP-14	1.5-5.5
T-GP-17	1-5.5

Surface soil and subsurface soil analytical data were combined to evaluated exposures to the entire 0 to 15 foot interval for future receptors. Samples T-TP-2 (3-4'), T-TP-3 (3-5.5'), T-TP-4 (4-5'), T-TP-5 (2.5-3.5' and 8-9'), T-TP-6 (0-1', 1-2' and 3.5-5'), T-TP-8 (0-1' and 3-4'), T-TP-9 (0-1' and 3-4'), T-TP-10 (0-1'), T-GP-1 (4-6.5'), T-GP-3 (1-1.5' and 5-7'), T-GP-5 (6-8'), T-GP-8 (0-1'), T-GP-9 (0-1'), T-GP-10 (0-1'), T-GP-11 (0-1'), T-GP-12 (0-1'), T-GP-13 (1-3'), T-GP-14 (6-7'), T-GP-15 (1-1.5 and 2-6'), T-GP-16 (0-1' and 1-2.5'), T-GP-17 (10-12'), T-GP-19 (0-1'), T-HA-5 (0-1'), T-HA-9 (0-1'), T-SWD-1 (0-0.5'), T-SWD-2 (0-0.5'), T-Bank-2 (0-0.5') and T-Bank-3 (0-0.5') were not quantitatively evaluated because they displayed either non-detect or background levels of contaminants. Not including these samples in the analysis results in more health-protective exposure point concentrations.

2.3 South Bank Area Data

Surface soil samples were collected from the South Bank Area. Analytical results of compounds detected in soil are presented in Appendix C.4, Table C.4-2. Sampling locations can be found on Figure 3. Surface soil samples collected from the South Bank Area and quantitatively evaluated in the risk assessment are summarized below:

Sample Name	Sample Depth (feet)
T-Bank-4	0-0.5
T-Bank-4-1	0-0.5
T-Bank-4-2	0-0.5
T-Bank-4-3	0-0.5
T-Bank-4-4	0-0.5

2.4 Identification of COPCs

The scope of the baseline human health risk assessment includes identification of COPCs based on the chemical substances found at the properties. The list of COPCs was developed using the screening process described below. Available and appropriate data for all depths for each human health exposure point were combined to select COPCs, resulting in a conservative list of soil COPCs.

2.4.1 Selection Criteria

The maximum detected concentration of each chemical in soil at each exposure point was compared to Residential Soil Regional Screening Levels (RSLs) published by EPA (EPA, 2012). RSLs are risk-based concentrations that are intended to assist risk assessors and others in initial screening-level evaluations of environmental contaminant concentrations. RSLs are chemical concentrations back-calculated using toxicity criteria and either a $1x10^{-6}$ target risk level for potential carcinogens or a hazard quotient (HQ) of 1 for noncarcinogens. For purposes of this screening analysis, a HQ of 0.1 was used to add a ten-fold measure of safety to reduce the chance of omitting chemicals from the list of COPCs that could contribute to a total hazard index (HI) of 1. To accomplish this, RSLs for noncarcinogenic chemicals were divided by 10 prior to comparison to maximum detected values.

RSLs are not published for petroleum hydrocarbon fraction data obtained from EPH (C9-C18 aliphatics, C19-C36 aliphatics, and C11-C22 aromatics) analyses. In lieu of RSLs or other suitable criteria from EPA, the maximum detected hydrocarbon fraction concentrations were compared to values derived using EPA's on-line RSL calculator, default residential exposure assumptions and MassDEP's toxicity values for the hydrocarbon fractions (MassDEP, 2003). RSLs calculated for the hydrocarbon fractions were adjusted for noncarcinogens as previously described.

A maximum detected chemical concentration less than its screening value indicated that the excess lifetime cancer risk associated with exposure to that chemical concentration would be less than one in one million and the HQ associated with exposure would be less than 0.1. Chemicals detected at concentrations below their screening criteria were, therefore, eliminated from further evaluation. All chemicals with maximum concentrations greater than the relevant screening criteria were selected as COPCs. Comparisons of maximum soil concentrations to screening criteria are presented in Appendix C.4, Table C.4-2.

For certain analytes that lack compound-specific screening criteria (e.g., benzo(g,h,i)perylene), a surrogate compound was selected (e.g., pyrene) and its screening criteria was used for COPC screening. Specific instances where surrogate assignments were made are identified in footnotes in the COPC selection table.

For three analytes (mercury, chromium and cyanide), multiple RSLs are available for use as COPC selection criteria. For mercury, the RSL for mercuric chloride was compared to the maximum detected mercury results. For cyanide, the RSL for free cyanide was used in COPC selection. Because only total chromium analyses were performed, the RSL for hexavalent chromium was conservatively compared to the maximum detected total chromium result.

Four essential human nutrients lacking screening criteria (i.e., calcium, magnesium, potassium and sodium) were not considered COPCs as these nutrients are only toxic at very high concentrations.

The RSL for lead is the residential soil screening level of 400 mg/kg (EPA, 1994). The maximum lead concentration in soil was compared to this criterion to select COPCs.

2.4.2 Chemicals Selected as COPCs

This subsection describes the chemicals selected as COPCs and refers to lists of the selected chemicals.

Constituents detected in the surface and subsurface soil samples collected from the three exposure points are summarized in Appendix C.4, Table C.4-2. This table lists, by exposure point, chemicals detected in surface and subsurface soil and identifies the chemicals selected as COPCs based on comparison to residential soil RSLs.

The 19 soil COPCs for the Hydro Property are summarized below:

Hydro Property Soil COPCs		
Naphthalene	Dibenz(a,h)anthracene	Cobalt
Chrysene	C11-C22 aromatics	Iron
Benzo(a)anthracene	Total PCBs	Lead
Benzo(b)fluoranthene	Aluminum	Manganese
Benzo(k)fluoranthene	Antimony	Vanadium
Benzo(a)pyrene	Arsenic	
Indeno(1,2,3-cd)pyrene	Chromium	

The 20 soil COPCs for the Northern Transmission Line Property are summarized below:

Northern Transmission Line Property Soil COPCs		
Benzo(a)anthracene	Total PCBs	Cyanide
Benzo(b)fluoranthene	Aluminum	Iron
Benzo(k)fluoranthene	Antimony	Lead
Benzo(a)pyrene	Arsenic	Manganese
Indeno(1,2,3-cd)pyrene	Chromium	Mercury
Dibenz(a,h)anthracene	Cobalt	Vanadium
C11-C22 aromatics	Copper	

The 12 soil COPCs for the South Bank Area are summarized below:

South Bank Area Soil COPCs		
Benzo(a)anthracene	Dibenz(a,h)anthracene	Chromium
Benzo(b)fluoranthene	C11-C22 aromatics	Cobalt
Benzo(a)pyrene	Total PCBs	Iron
Indeno(1,2,3-cd)pyrene	Aluminum	Manganese

Summaries of surface and surface/subsurface soil data sets are presented in Appendix C.1 for the COPCs at each exposure point. Each of the summary tables for chemicals detected in soil provide the frequency of detection, range of SQLs for samples where compounds were not detected, range of detected concentrations, and locations of maximum detected results.

2.5 Determination of Exposure Point Concentrations

To evaluate the magnitude of potential human exposures, the concentration of each COPC at each exposure point must be estimated. An estimate of this concentration is referred to as an EPC. EPCs were determined for the soil COPCs for each exposure point.

EPA recommends calculation of the 95% UCL on the arithmetic mean concentration for the estimation of risk (EPA, 1989; 1992). Therefore, whenever possible, the 95% UCL has been calculated and used as the soil EPC. The 95% UCLs were calculated using EPA's program ProUCL Statistical Software Version 4.1 (EPA, 2011a). The 95% UCL values if a sufficient

number of samples were available from an exposure point. When an insufficient number of samples were available, the program was typically unable to calculate a reliable 95% UCL value.

Appendix C.4, Tables C.4-3.1 and C.4-3.2 contain documentation for the calculation and selection of the 95% UCL values.

For small data sets (typically less than nine samples), the maximum detected COPC concentration was used as the EPC. When the 95% UCL value for a COPC exceeded the maximum detected concentration because of small sample sizes or high data set variability, the maximum detected COPC concentration was used as the EPC.

Appendix C.4, Tables C.4-3.1 and C.4-3.2 list the surface and surface/subsurface soil COPCs detected along with the calculated EPCs.

3.0 EXPOSURE ASSESSMENT

The purpose of the exposure assessment is the quantification of the extent, frequency and duration of actual or potential exposure to chemicals by pathways relevant to the Site and activities of the potential receptors.

As part of the exposure assessment, current and potential future exposure pathways were determined through which identified populations may be exposed to the soil COPCs.

An exposure pathway describes the course a chemical follows while moving through environmental media to a receptor. An exposure pathway may consist of a mechanism of release of contaminants to an environmental medium (e.g., soil), an exposure route (e.g., ingestion) and a receptor (e.g., trespasser). An exposure pathway is considered complete when contact by a receptor with contaminated media may occur currently or in the future. For purposes of this risk assessment, only potentially complete exposure pathways were quantitatively evaluated.

EPA (1989 and 1991b) guidance requires that plausible exposures under both current and future land-use scenarios be evaluated in a baseline risk assessment. Accordingly, potential human exposure pathways were identified for both current and potential future land-use scenarios, assuming that LUCs will be used to control all but long-term future construction worker exposures.

The following items summarize the pathways quantitatively evaluated for each exposure scenario. Please refer to Appendix C.4, Table C.4-1, which summarizes scenarios addressed quantitatively and qualitatively, provides assumptions related to media depth, and presents the rationale for the selection or exclusion of exposure pathways.

- **Indoor worker, current**

  Ingestion pathway: Surface soil at Hydro Property
  Dermal contact pathway: Surface soil at Hydro Property

- **Indoor worker, future**
  Ingestion pathway: Surface/subsurface soil at Hydro Property
  Dermal contact pathway: Surface/subsurface soil at Hydro Property

- **Trespasser, current**
  Ingestion pathway: Surface soil at all three exposure points
  Dermal contact pathway: Surface soil at all three exposure points

- **Trespasser, future**
  Ingestion pathway: Surface/subsurface soil at all three exposure points
  Dermal contact pathway: Surface/subsurface soil at all three exposure points

- **Non-Intrusive worker, current**
  Ingestion pathway: Surface soil at all three exposure points
  Dermal contact pathway: Surface soil at all three exposure points

- **Non-Intrusive worker, future**
  Ingestion pathway: Surface/subsurface soil at all three exposure points
  Dermal contact pathway: Surface/subsurface soil at all three exposure points

- **Intrusive worker, future**
  Ingestion pathway: Surface/subsurface soil at North Transmission Line Property and South Bank Area
  Inhalation pathway: Fugitive dust at North Transmission Line Property and South Bank Area
  Dermal contact pathway: Surface/subsurface soil at North Transmission Line Property and South Bank Area

- **Construction worker, future**
  Ingestion pathway: Surface/subsurface soil at all three exposure points
  Inhalation pathway: Fugitive dust at all three exposure pathways
  Dermal contact pathway: Surface/subsurface soil at all three exposure pathways

3.1 Calculation of Dose

Part of the exposure assessment is to identify exposure equations to be used in the risk assessment and to document assumptions made for each of the parameters used in these equations. The selection of exposure equations and assumptions is based both on available guidance and professional judgment.

The Guidance for Human Health Risk Assessments for Hazardous Substances in Maine (MEDEP, 2011) was used as the source of exposure assumptions identified in the exposure assessment, except in cases where site-specific information was incorporated.

3.1.1 Selection of Exposure Equations

Appendix C.4, Tables C.4-4.1 and C.4-4.2 provide the medium-specific equations used for the calculation of carcinogenic and noncarcinogenic chronic daily intake (CDI) values. The equations are used for calculating a lifetime average daily dose (LADD) relevant to cancer risk (i.e., cancer intake) or for calculating an average daily dose (ADD) relevant to noncancer risk (i.e., noncancer intake).

3.1.2 Exposure Parameters

The exposure parameters used for each of the receptors evaluated in the risk assessment are described below and are presented in Appendix C.4, Tables C.4-4.1 (current) and C.4-4.2 (future). Since exposure parameters vary depending on the exposure pathway and receptor being evaluated, the exposure parameters are presented by pathway in the tables and are discussed by receptor.

Indoor Worker Exposure Parameters. Indoor workers are present at the Hydro Property only. Exposure parameters used for this receptor are default values recommended by MEDEP (2011). For the soil ingestion pathway, the default soil ingestion rate of 50 mg/day for indoor workers was used. It was assumed that indoor workers may be exposed to soil for 26 days/year. This exposure frequency represents 1 days of exposure each week for the warmest 6 months of the year. Soil exposures during the colder months when the ground is frozen or covered by snow have not been assumed to occur.

The default high-end exposure duration of 25 years and the default value of 70 kg for an adult body weight were used. The averaging time for non-carcinogens was set equal to the exposure duration, and the averaging time for carcinogens was the standard lifetime duration (70 years).

For the soil dermal pathway, indoor workers were assumed to contact soils with 3,300 cm^2 of body surface area. This surface area assumes exposure to the head, hands and forearms. A weighted soil-to-skin adherence factor of 0.02 mg/cm^2-day was used.

Dermal absorption factors provided in Exhibit 3-4 of *RAGS, Part E Supplemental Guidance for Dermal Risk Assessment* (EPA, 2004) were used to evaluate risk associated with dermal contact with soil. Dermal absorption factors of 3% (arsenic), 13% (benzo(a)pyrene and other PAHs), 14% (Aroclors and other PCBs), and 10% (SVOCs) were used. In the absence of recommended dermal absorption factors, dermal exposure to the remaining soil COPCs was not assessed as recommended by MEDEP (2011). The remaining exposure parameters used for the dermal exposure pathway (i.e., exposure frequency, exposure duration, body weight, and averaging time) were the same as the values described for the soil ingestion pathway for this receptor.

Trespasser Exposure Parameters. Trespassing may occur at all three exposure points. The trespasser is assumed to be an older child (11 to 18 years of age). Exposure parameters used for this receptor are default values recommended by MEDEP (2011).

Because the climate is not conducive to outdoor activities for about 6 months of the year, the older child trespasser may venture onto the property 2 days per week for the warmest 6 months of the year (52 days/year).

For the soil ingestion pathway, the default soil ingestion rate of 100 mg/kg was used. Exposure duration is assumed to be 7 years and a value of 52 kg for the body weight of an older child was used. The averaging time for non-carcinogens was set equal to the exposure duration, and the averaging time for carcinogens was the standard lifetime duration (70 years).

For the dermal pathway, the trespasser is assumed to contact environmental media with 5,000 cm^2 of body surface area. This surface area assumes exposure to head, forearms, hands and lower legs. A soil-to-skin adherence factor of 0.04 mg/cm^2-day was used. Dermal absorption factors, as previously described, were used to evaluate risk associated with dermal contact with soil. The remaining exposure parameters used for the dermal exposure pathway (i.e., exposure frequency, exposure duration, body weight, and averaging time) were the same values described for the ingestion pathway.

Non-Intrusive Worker Exposure Parameters. Non-Intrusive workers are present at all three exposure points. Exposure parameters used for this receptor are a mixture of default values recommended by MEDEP (2011) for Outdoor Commercial Workers and site-specific parameters. For the soil ingestion pathway, the default soil ingestion rate of 100 mg/day for outdoor workers was used. Based on site-specific information, it was assumed that non-intrusive workers may be exposed to soil for 24 days/year (4 days per month for 6 months).

The default high-end exposure duration of 25 years and the default value of 70 kg for an adult body weight were used. The averaging time for non-carcinogens was set equal to the exposure duration, and the averaging time for carcinogens was the standard lifetime duration (70 years).

For the soil dermal pathway, non-intrusive workers were assumed to contact soils with 3,300 cm^2 of body surface area. This surface area assumes exposure to the head, hands and forearms. A default weighted soil-to-skin adherence factor of 0.2 mg/cm^2-day was used. Dermal absorption factors, as previously described, were used to evaluate risk associated with dermal contact with soil. The remaining exposure parameters used for the dermal exposure pathway (i.e., exposure frequency, exposure duration, body weight, and averaging time) were the same values described for the ingestion pathway.

Construction and Intrusive Worker Exposure Parameters. Long-term construction worker exposures are assumed to occur at all three exposure points while short-term intrusive workers are only likely to be present at the Northern Transmission Line Property and South Bank Area associated with utility pole replacement or tree removal activities. Exposure parameters used for the construction worker are default values recommended by MEDEP (2011). Exposure parameters used for the intrusive worker receptor are a mixture of default values recommended by MEDEP (2011) for Construction Workers and site-specific parameters.

For the soil ingestion pathway, the default contact intensive soil ingestion rate of 330 mg/day was used for both receptors. It was assumed that long-term construction workers may be

exposed for 125 days/year (5 days per week for a 6-month construction project) while short-term intrusive workers are exposed for 24 days per year (2 days per month), based on site-specific information.

The default exposure duration of 1 year and the default value of 70 kg for an adult body weight were used for long-term construction workers. For short-term intrusive workers, the same default body weight was used as for the construction worker, but an exposure duration of 27 years was used since utility pole replacement is assumed to be an activity that occurs repeatedly over the entire duration of a worker's employment. The averaging time for non-carcinogens was set equal to the exposure duration, and the averaging time for carcinogens was the standard lifetime duration (70 years). Because the construction worker scenario was evaluated for the Hydro Property and no recurring multi-year short-term utility work is anticipated at this exposure point, the long-term construction worker scenario should provide a conservative evaluation of the risk to excavation workers at this exposure point.

Construction and intrusive workers were assumed to contact soil with 3,300 cm^2 of body surface area. The surface area assumes exposure to the head, forearms and hands. A soil-to-skin adherence factor of 0.3 mg/cm^2-day was used for both receptors. Dermal absorption factors, as previously described, were used to evaluate risk associated with dermal contact with soil. The remaining exposure parameters used for the dermal exposure pathway (i.e., exposure frequency, exposure duration, body weight, and averaging time) were the same values described for the ingestion pathway.

For the inhalation pathway, construction workers were assumed to engage in activities resulting in the inhalation of fugitive dusts for 8 hours/day. Exposure frequencies were the same as those selected for ingestion/dermal contact related exposures. The remaining exposure parameters for the inhalation pathway (i.e., exposure duration and averaging time) were the same values described for the soil ingestion pathway

4.0 TOXICITY ASSESSMENT

The toxicity assessment identifies the potential effects that are associated with exposure to a COPC. The toxicity assessment considers chronic (long-term) exposures. Two types of toxic effects are evaluated in a risk assessment: carcinogenic effects and non-carcinogenic effects. Noncarcinogenic health effects refer to toxicological effects other than cancer such as toxicity to the liver, kidneys or central nervous system. Carcinogenic health effects refer to the increased cancer risk from exposure to a substance.

Because toxic effects can differ by route of exposure (e.g., oral or inhalation), dose-response values for the oral and inhalation routes of exposure were used in this evaluation. To quantify non-carcinogenic effects, oral and inhalation toxicity values were used. Oral reference doses (RfDs) in units of mg/kg-day and inhalation reference concentrations (RfCs) in units of mg/m^3 that are "estimates (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime" (EPA, 1989). In the absence of dermal toxicity factors, EPA uses an oral-to-dermal extrapolation as describes in RAGS E (EPA, 2004).

Appendix C.4, Table C.4-5.1 presents non-cancer toxicity data for the oral and dermal pathways; Appendix C.4, Table C.4-5.2 presents the non-cancer toxicity data for the inhalation pathway. Both chronic and, where available, subchronic toxicity values are listed on these tables. When the chronic Reference Dose (RfD) or chronic Reference Concentration (RfC) is based on a subchronic study, a subchronic RfD has been developed by the elimination of the 10-fold uncertainty factor.

Oral cancer slope factors (CSFs) in units of $(mg/kg\text{-}day)^{-1}$ and inhalation unit risk (IUR) factors in units of $(ug/m^3)^{-1}$ were used to assess potential cancer effects. The cancer slope factor, or CSF, is a plausible upper bound estimate of carcinogenic potency used to calculate cancer risk from exposure to carcinogens, by relating estimates of lifetime average chemical intake to the incremental probability of an individual developing cancer over a lifetime. The IURs are the upper-bound excess lifetime cancer risks estimated to result from continuous exposure to an agent at a concentration of 1 $\mu g/m^3$ in air. The CSFs and IURs developed by the EPA are plausible upper bound estimates, which means that EPA is reasonably confident that the actual cancer risk will not exceed the estimated risk calculated using these toxicity values.

The weight-of-evidence classifications, which characterize the extent to which the available data support the hypothesis that an agent causes cancer in humans, are presented for carcinogenic COPCs for the oral/dermal and inhalation pathways, along with the CSFs and IURs in Appendix C.4, Table C.4-6.1 and Table C.4-6.2, respectively.

Toxicity data used in this assessment those used by MEDEP in the development of the Remedial Action Guidelines (MEDEP, 2013). Primary sources for these toxicity values are the EPA Integrated Risk Information System (IRIS) on-line database (EPA, 2013), the EPA Superfund Technical Support Center (STSC), the Massachusetts Department of Environmental Protection (MassDEP, 2003), the California Environmental Protection Agency (CalEPA), the Agency for Toxic Substances and Disease Registry (ATSDR) and the New Jersey Department of Environmental Protection (NJDEP).

For mercury, the RfD for inorganic mercury was used to evaluate exposures. Due to a lack of chromium speciation data, chromium in soil was evaluated using the hexavalent chromium toxicity values.

For PAHs, the CSF for B(a)P, along with the appropriate relative potency factors (EPA, 1993), have been used to evaluate the potency of the individual carcinogenic PAHs. In addition, surrogate RfDs recommended by MEDEP to evaluation the non-cancer effects of the carcinogenic PAHs were used in the risk calculations.

The quantitative evaluation of potential risks for carcinogens with a mutagenic mode of action (i.e., carcinogenic PAHs and chromium VI) followed EPA guidance entitled *Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens* (EPA, 2005). Specifically, the quantification of cancer risks for child receptor (i.e., the older child trespasser) involves the use of age-dependent adjustment factors (ADAFs). An ADAF of 3 was used for exposures occurring between the ages of 11 and 16 (EPA, 2005). An ADAF of 1 was used for

adult exposures and childhood exposures between the ages of 17 and 18. This methodology is further discussed in Section 5.

4.1 Adjustment of Toxicity Factors

No RfDs or CSFs specific to dermal exposure are available. Therefore, cancer risks and HIs associated with dermal exposure may be evaluated using an oral CSF or RfD, adjusted such that the toxicity value is appropriate for the dermal pathway. For purposes of evaluating dermal exposure, it is generally necessary to adjust an oral toxicity factor (i.e., RfD or CSF) from an administered (i.e., applied) dose to an absorbed (i.e., internal) dose (EPA, 1989). Because the toxicity values for the COPCs are expressed as orally administered doses (i.e., applied or intake-based), it is necessary to adjust both the RfDs and CSFs for these substances in estimating exposure on an absorbed-dose basis when assessing dermal exposure.

The oral RfDs and oral CSFs for each COPC were modified according to the following equations for use in assessing dermal exposure (EPA, 1989):

$$ERfD_o = RfD_o \times BF_{o,a}$$
$$ECSF_o = CSF_o / BF_{o,a}$$

where:

- $ERfD_o$ = effective absorbed-dose oral RfD for each chemical (i.e., adjusted dermal RfD)
- RfD_o = oral RfD for each chemical
- $BF_{o,a}$ = absolute oral bioavailability factor for each chemical (i.e., oral to dermal adjustment factor)
- $ECSF_o$ = effective absorbed-dose oral CSF for chemical (i.e., adjusted dermal CSF)
- CSF_o = oral CSF for each chemical

Appendic C.4, Tables C.4-5.1 and C.4-6.1 present the oral to dermal adjustment factors used to adjust the oral toxicity criteria for the COPCs evaluated in the dermal exposure pathways. Oral bioavailability values were derived from data presented in RAGS, Part E (EPA, 2004). No adjustment for oral absorption efficiency has been applied to any COPC with an absorption efficiency of greater than 50%.

4.2 Toxicity of Lead

Lead was selected as a COPC at the Hydro Property and the Northern Transmission Line Property. No RfD or CSF is available for lead. Therefore, EPA has recommended some alternative approaches to evaluate lead exposures. Lead exposures were evaluated for the adult worker scenarios and older child trespasser through the use of methodology provided in Recommendations of the Technical Workgroup for Lead for an Approach to Assessing Risk Associated with Adult Exposures to Lead in Soil and updates (EPA, 2003a; 2009). This methodology uses algorithms to relate soil lead intake to blood lead concentrations in women of childbearing age. The model calculates a soil lead concentration protective of a site-specific maternal blood lead level that will be protective of a 95th percentile fetal blood level of 10 μg/dL.

The average time-weighted soil or sediment lead concentration was used as the soil or sediment concentration in the model (EPA, 2003b). Appendix C.3 documents the calculation of a site-specific maternal blood lead level for each scenario using a geometric standard deviation (GSD) in intake and biokinetics of 1.8, which is typical of populations in small areas dominated by a single source of lead exposure. A typical blood lead concentration in women of child-bearing age in the absence of study area exposures was assumed to be 1.0 μg/dL (EPA, 2009). All other model inputs are presented on tables in Appendix C.3.

The ingestion rate was adjusted based on the scenario being evaluated. For the indoor worker, the ingestion rate was assumed to be 50 mg/day. For the non-intrusive worker and older child trespasser, the ingestion rate was assumed to be 100 mg/day. For the intrusive worker and construction worker, the ingestion rate was assumed to be 330 mg/day. The time-weighted average soil lead concentration was used as the soil concentration in the model (EPA, 2003b) for the indoor worker, non-intrusive worker, intrusive worker and trespasser since these receptors are exposed to lead in soil on an intermittent, rather than daily, basis. The calculation of the time-weighted average lead concentrations in soil is presented in Appendix C.3.

5.0 RISK CHARACTERIZATION

Risk characterization combines estimates of exposure with toxicity data to develop estimates of non-cancer health hazards and cancer risks. The risk characterization was divided into three phases: 1) risk estimation; 2) risk description; and 3) uncertainty analysis.

Risk estimation is undertaken by combining the toxicity factors and exposure assessment equations to calculate estimates of cancer risks and non-cancer hazard indices (HIs). Noncarcinogenic risks are reported as pathway-specific HIs, which are the sum of individual COPC HQs for that exposure pathway. Only HQs from COPCs that affect the same target organ are summed to generate HIs. Estimates of carcinogenic risks are reported as incremental (above background cancer risk experienced by all individuals in daily life) lifetime cancer risks (ILCRs). Current practice considers carcinogenic risks to be additive when assessing exposure to a mixture of hazardous substances. The significance of the risk estimates are relative to risk management criteria set forth in MEDEP policy. The uncertainty analysis describes and quantifies, where possible, the impact of data uncertainty and variability, exposure assumptions, and toxicity values on estimates of risk.

5.1 Risk Estimation

Noncancer risk is estimated by means of a HQ. To calculate noncarcinogenic HQs, the ADDs, calculated as described in Section 3, were divided by the RfDs as follows:

$$HQ = ADD / RfD$$

The sum of this ratio for all chemicals within an exposure point and pathway that have the same target organ or type of toxicity is termed the pathway HI. The HI is useful as a reference point for gauging potential effects of environmental exposures to complex mixtures. In general, HIs that are less than 1 are not of regulatory concern; however, a HI of greater than 1 does not

automatically indicate that an adverse effect will occur and should not automatically be interpreted as posing an unacceptable risk to the exposed population.

The total pathway HI for each exposure point was calculated by summing the HQs for the COPCs having similar systemic effects. Total HIs for each receptor, by medium, were calculated by summing the total pathway HIs across pathways within media (e.g., summing dermal and ingestion soil risks). As a first approximation, all COPCs are assumed to have additive effects. Total pathway HIs, assuming additivity of effects, are presented on Tables C.4-7.1 through C.4-7.9 in Appendix C.4. If the total pathway HI for a receptor exceeded 1, only COPCs having similar systemic effects (i.e., target organs) were summed for each pathway and medium. Target organ HIs are presented on Appendix C.4, Tables C.4-5.1 and C.4-5.2.

The cancer risk of each receptor is estimated for each medium by means of an ILCR. MEDEP indicates that where the cumulative incremental current or future carcinogenic risk to a receptor is less than 10^{-5}, and where the noncarcinogenic HI is less than 1, action generally is not warranted unless there are adverse environmental impacts.

To calculate ILCR, the chemical- and pathway-specific LADDs, calculated as described in Section 3, were multiplied by CSFs as follows:

$$ILCR = CSF \times LADD$$

The resulting value represents the upper-bound probability that an individual could develop cancer over his or her lifetime due to exposure to potential carcinogens under the conditions specified in the exposure scenario. For example, carcinogenic risk levels of 10^{-6} and 10^{-4} represent a one-in-one-million chance and a one-in-ten-thousand chance, respectively, that an individual could develop cancer over a lifetime.

The cancer risk for each pathway was calculated by summing the risks from each COPC at each exposure point within the pathway, while receptor risks for soil were calculated by summing ILCRs for each pathway.

Total receptor cancer risk from soil is presented by exposure point for each receptor. Risk was not summed across the exposure points since the parameter values used assume maximal exposure within each exposure point. This approach assumes that an individual would not be maximally exposed to soil at more than one exposure point.

Carcinogenic PAHs and chromium VI were selected as soil COPCs. Each of these chemicals has been determined by EPA to produce tumors through a mutagenic mode of action. The quantification of potential cancer risks for carcinogens with a mutagenic mode of action followed the EPA guidance entitled *Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens* (EPA, 2005).

The quantification of cancer risks for older child trespassers (age 11-18) involves the use of ADAFs for each of the chemicals identified as COPCs with mutagenic modes of action (carcinogenic PAHs and chromium VI). Specifically, an ADAF of 3 was used for exposures

occurring between the ages of 11 and 16. The following general equation demonstrates how ADAFs were incorporated into the oral/dermal and inhalation risk calculations:

$$\textbf{Risk}_{\textbf{oral/dermal}} = \textbf{Exposure dose (mg/kg-day) x CSF (mg/kg-day)}^{-1} \textbf{ x ADAF}$$
$$\textbf{Risk}_{\textbf{inhalation}} = \textbf{Exposure concentration (ug/m}^{3}\textbf{) x IUR (ug/m}^{3}\textbf{)}^{-1} \textbf{ x ADAF}$$

The specific formulas used for the ADAF calculations are provided in footnotes at the bottom of Tables C.4-7.1 through C.4-7.8 in Appendix C.4.

5.2 Risk Description

This subsection summarizes the human health risks potentially associated with exposures to soil. Individual chemical-specific carcinogenic risks are expressed as probabilities of developing cancer (i.e., ILCRs), while noncarcinogenic risks are expressed as HIs. All carcinogenic and noncarcinogenic risks were calculated using RME methods. The RME represents the reasonable maximum exposure and risk a receptor may receive from an exposure point.

The following summarizes the estimated ILCRs and HIs for the evaluated soil pathways and receptors for each of the three exposure points.

Adult Indoor Worker. An indoor worker scenario was evaluated for the Hydro Property only. The estimated ILCRs and HIs for the adult indoor worker receptor at the Hydro Property are presented in Appendix C.4, Tables C.4-7.1 and C.4-7.2 for current and future land use, respectively. Current and future ILCRs and HIs are calculated assuming incidental ingestion of and dermal contact with surface soil and surface/subsurface soil, respectively. The cumulative ILCRs and HIs are at or below MEDEP's target ILCR of 10^{-5} and HI of 1.

Older Child Trespasser. A trespasser scenario was evaluated for all three exposure points. The estimated ILCRs and HIs for the older child trespasser receptor at the three exposure points are presented in Appendix C.4, Tables C.4-7.3 and C.4-7.4 for current and future land use, respectively. Current and future ILCRs and HIs are calculated assuming incidental ingestion of and dermal contact with surface soil and surface/subsurface soil, respectively. The cumulative ILCRs and HIs are at or below MEDEP's target ILCR of 10^{-5} and HI of 1.

Adult Non-Intrusive Worker. A non-intrusive worker scenario was evaluated for all three exposure points. The estimated ILCRs and HIs for the non-intrusive worker receptor at the three exposure points are presented in Appendix C.4, Tables C.4-7.5 and C.4-7.6 for current and future land use, respectively. Current and future ILCRs and HIs are calculated assuming incidental ingestion of and dermal contact with surface soil and surface/subsurface soil, respectively. The cumulative ILCRs and HIs are at or below MEDEP's target ILCR of 10^{-5} and HI of 1.

Intrusive Worker. The future short-term intrusive worker (24 days per year) was evaluated for exposures to surface soil/subsurface soil at all three exposure points. For this scenario, ILCRs and HIs are calculated assuming incidental ingestion of and dermal contact with soil and inhalation of particulates from soil. The estimated ILCRs and HIs for the intrusive worker receptor at the three exposure points are presented in Appendix C.4, Table C.4-7.7 for future

land use. The cumulative ILCRs and HIs are at or below MEDEP's target ILCR of 10^{-5} and HI of 1.

Construction Worker. The future long-term construction worker (6 month) was evaluated for exposures to surface soil/subsurface soil at all three exposure points. For this scenario, ILCRs and HIs are calculated assuming incidental ingestion of and dermal contact with soil and inhalation of particulates from soil. The estimated ILCRs and HIs for the construction worker receptor at the three exposure points are presented in Appendix C.4, Table C.4-7.8 for future land use. The cumulative ILCRs and HIs are below MEDEP's target ILCR of 10^{-5} and HI of 1.

5.3 Risks Associated with Exposure to Lead

Lead was selected as a COPC for soil and the Hydro Property and Northern Transmission Line Property. Adult and older child lead exposures were evaluated using the methodology provided by EPA (2003a; 2009). The results of the lead evaluation for all three properties are contained in Appendix C.3. For adult and older child exposures for soil, the calculated central estimate of the blood lead concentration in women of childbearing age did not exceed the goal of 4.2 μg/dL for current and future land use, except for the future construction worker at the Northern Transmission Line Property where adult exposures could result in fetal blood lead levels in excess of blood lead level goals. Long-term construction worker exposures could be controlled using Land Use Controls to prevent long-term construction projects in the Northern Transmission Line Property.

5.4 Description of Uncertainties

Estimation of risks to human health that may result from exposure to chemicals in the environment is a complex process that often requires the combined efforts of multiple disciplines. Each exposure assumption and chemical toxicity value has uncertainty associated with it. In each step of the risk assessment process, beginning with the data collection and analysis and continuing through the toxicity assessment, exposure assessment, and risk characterization, conservative assumptions are made that are intended to be protective of human health and to ensure that risks are not underestimated. The following subsections provide a discussion of the key uncertainties that may affect the final estimates of human health risk in this risk assessment. Uncertainties are arranged by topic.

5.4.1 Environmental Sampling

Environmental samples are collected to characterize the average concentration of contaminants that an individual may contact over time. Sampling-related uncertainties include: limitations on sample size as well as sampling procedures. Sample size is limited by resources and, therefore, a conservative estimate of the average concentration is used. The sample size, combined with a conservative estimate of the mean contaminant concentration, may over- or underestimate the true concentration of contamination that an individual contacts over time. Sampling procedures require use of a very small amount of material to represent a much greater area which also contributes to uncertainty.

At the Little Falls Property, these uncertainties are likely to be minimal since the primary areas of contamination have been well characterized through the selection of sampling locations based on visual information indicating the presence of fill-related materials.

5.4.2 Analytical Data Quality

Data quality measures were in place to ensure that data are appropriate for use in the risk assessment. Data review procedures were followed to minimize potential errors in identification and quantification of contaminants and to ensure that only data of known and documented quality were used.

The contaminant concentrations reported as non-detected may actually range from non-detect (i.e., not present) up to the value of the SQL. The replacement of non-detects with a value equal to one-half the SQL is intended to be reasonably conservative, but could over- or underestimate the actual constituent concentrations present in the environmental media. Elevated SQLs were not reported for any analytical results

5.4.3 Selection of Chemicals for Evaluation

The maximum detected chemical concentrations in soil were compared to EPA residential RSLs for the selection of COPCs. Chemicals whose maximum concentrations were below their respective cancer screening value or 10-percent of their noncancer screening value were not carried through the assessment. It is unlikely that this risk-based screening excluded chemicals that would be of concern, based on the conservative exposure assumptions and conservatively derived toxicity criteria that are the basis of the screening criteria. Although following this methodology does not provide a quantitative risk estimate for all chemicals, it focuses the assessment on the chemicals accounting for the greatest risks (i.e., chemicals whose maximum concentrations exceeded their respective screening value), and, although the overall risk estimates are uncertain, it is not expected that actual risks will be significantly greater than estimated risks.

5.4.4 Toxicological Data

Uncertainty is associated with the toxicity values and toxicity information available to assess potential adverse effects. Chronic RfDs are used to assess the potential for noncancer effects. Chronic RfDs represent an estimate (with uncertainty spanning perhaps an order of magnitude or greater) of a daily exposure level for the human population, including sensitive subpopulations, that is likely to be without an appreciable risk of deleterious effects during a lifetime. The cancer slope factor, or CSF, is a plausible upper bound estimate of carcinogenic potency used to calculate cancer risk from exposure to carcinogens, by relating estimates of lifetime average chemical intake to the incremental probability of an individual developing cancer over a lifetime. The CSFs developed by the USEPA are plausible upper bound estimates, which means that the EPA is reasonably confident that the actual cancer risk will not exceed the estimated risk calculated using the CSF.

For dermal exposure pathways, the absence of dermal toxicity criteria necessitated the use of oral toxicity data. To calculate risk estimates for the dermal pathway, absolute oral bioavailability factors that reflect the toxicity study conditions were used to modify the oral toxicity criteria. For the chemicals with oral absorption exceeding 50-percent, a default oral absorption factor of 100-percent was used. The risk estimates for the dermal pathways may be over- or underestimated depending on how closely these values reflect the difference between the oral and dermal routes.

5.4.5 Exposure Assessment

There are uncertainties associated with the exposure point concentration (EPC), the exposure scenarios selected and the individual exposure parameters used for each scenario. The uncertainties associated with these various sources are discussed below.

Conservative estimates of the EPC were based on measured concentrations of contaminants. EPA's software program, Pro UCL version 4.1.00, which has been widely reviewed, was used to determine 95-percent UCLs of the mean concentration of COPCs. ProUCL 4.1.00 is a comprehensive statistical software program that has goodness-of-fit tests for normal, lognormal, and gamma distributions for data sets with and without ND observations. ProUCL 4.1.00 also provides parametric and nonparametric methods to compute upper confidence limits (UCLs) of mean concentrations. Use of ProUCL to conservatively estimate the mean is unlikely to underestimate the exposure concentration.

Default exposure assumptions selected for this evaluation are representative of the RME case. The RME assumptions provide an estimate of the upper-bound of potential exposures in the exposed population. The values for the individual exposure parameters (e.g., ingestion rates, frequency, duration) for the various exposure pathways and scenarios in this analysis may over or underestimate risks. Individuals were assumed to be exposed to the mean (average) concentration of the COPC every time they visit the site; as described above the mean concentration was conservatively estimated through the use of the 95%UCL.

5.4.6 Risk Characterization

The uncertainties associated with the risk characterization may be categorized into two groups: 1) those related to the other components of the risk assessment (i.e., the hazard identification, dose response assessment, and exposure assessment) and 2) those inherent in the risk characterization methodologies. The key uncertainty associated with the latter category is the assumption that constituent-specific risks are additive (i.e., act independently (1 + 1 = 2)). This oversimplifies the fact that constituents may also act synergistically (1 + 1 > 2) or antagonistically (1 + 1 < 2). The nature of the impact of the assumption of additivity on the risk estimates is unknown. However, as a guide, if compounds act synergistically, then assuming additivity would underestimate risk; if they act antagonistically, then risk would be overestimated.

As recommended in RAGS Part E (EPA, 2004), select COPCs in soil were not assessed for their contribution to risk via the dermal absorption phase due to a lack of dermal absorption factors.

These compounds include metals, except for arsenic. The lack of evaluation of the dermal pathway for these metals likely underestimates the risk associated soil exposures, though the underestimation is likely minimal because metals are only poorly absorbed through the skin.

Cancer risks and HIs for each receptor were not summed across exposure points. That is, for any given receptor, risks were calculated assuming that exposure occurs at only one exposure point. This assumption is uncertain since a given trespasser may spend half his/her time at one exposure point and half at another. Risks to such an individual would be intermediate between the risks to individuals exposed solely at each exposure point.

5.4.7 Overall Uncertainty

This risk assessment contains many layers of conservative assumptions and therefore tends to overestimate rather than underestimate risk.

6.0 HUMAN HEALTH RISK ASSESSMENT SUMMARY AND CONCLUSIONS

Overall summaries of cancer risk and noncancer hazard estimates for each of the evaluated scenarios and pathways for each exposure point (Hydro Property, Northern Transmission Line Area and South Bank Area) are presented in Appendix C.4, Tables C.4-7.1 through C.4-7.8. Receptors evaluated included indoor workers at the Hydro Property, older child trespassers, non-intrusive workers, and long-term construction workers at all three exposure points, and short-term intrusive workers at the Northern Transmission Line Property and South Bank Area.

Estimated cumulative ILCRs and HIs for each receptor were compared to MEDEP's target cancer risk of 10^{-5} and noncancer HI of 1. Risks were not summed across the exposure points since the parameter values used assume maximal exposures as each exposure point. This approach assumes that an individual would not be maximally exposed to soil at more than one exposure point.

The cumulative ILCRs and HIs are all below risk management criteria for all scenarios evaluated at each of the three exposure points. Lead was selected as a COPC for soil and the Hydro Property and Northern Transmission Line Property. Adult and older child lead exposures were evaluated using the methodology provided by EPA (2003a; 2009). The results of the lead evaluation for all three properties are contained in Appendix C.3. For adult and older child exposures for soil, the calculated central estimate of the blood lead concentration in women of childbearing age did not exceed the goal of 4.2 μg/dL for current and future land use, except for the future construction worker at the Northern Transmission Line Property where adult exposures could result in fetal blood lead levels in excess of blood lead level goals. Long-term construction worker exposures could be controlled using Land Use Controls to prevent long-term construction projects in the Northern Transmission Line Property.

7.0 REFERENCES

MassDEP, 2003. Updated Petroleum Hydrocarbon Fraction Toxicity Values for the VPH/EPH/APH Methodology. November 2003.

MEDEP, 2011. Guidance for Human Health Risk Assessments for Hazardous Substances Sites in Maine. http://www.maine.gov/dep/spills/publications/guidance/index.html February 2011.

MEDEP, 2013. Remedial Action Guidelines Calculations Public Review Draft March 11, 2013. http://www.maine.gov/dep/ftp/RAGS/Comparison%20to%20prior%20draft%20and%20Basis%20Docs/ March 2013.

U.S. Environmental Protection Agency (EPA). 1989. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual. Part A.* Interim Final. EPA/540/1-89/002. December 1989.

U.S. Environmental Protection Agency (EPA). 1991a. *Risk Assessment Guidance for Superfund: Volume I Human Health Evaluation Manual* (PART B, Development of Risk-Based Preliminary Remediation Goals) Interim EPA/540/R-92/003, Publication 9285.701B, December 1991.

U.S. Environmental Protection Agency (EPA). 1991b. *Role of Baseline Risk Assessment in Superfund Remedy Selection Decisions.* Office of Solid Waste and Emergency Response. Washington, D.C. OSWER Directive 9355.0-30. Memo from Don R. Clay. April 22, 1991.

U.S. Environmental Protection Agency (EPA). 1991c. *Human Health Evaluation Manual, Supplemental Guidance: "Standard Default Exposure Factors"*. Office of Solid Waste and Emergency Response. Washington, D.C. OSWER Directive 9285.6-03. Memo from Timothy Fields, Jr. June 25, 1991.

U.S. Environmental Protection Agency (EPA). 1992. *Supplemental Guidance to RAGS: Calculating the Concentration Term.* Office of Solid Waste and Emergency Response. Washington, D.C. Publication 9285.7-081. May 1992.

U.S. Environmental Protection Agency (EPA). 1993. *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons.* Office of Research and Development. Washington, DC. EPA/600/R-93/089. July 1993.

U.S. Environmental Protection Agency (EPA). 1994. *Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities.* Office of Solid Waste and Emergency Response. Washington, D.C. OSWER Directive 9355.4-12. July 1994.

U.S. Environmental Protection Agency (EPA). 1997. *Health effects assessment summary tables, FY-1997 annual (HEAST).* Office of Health and Environmental Assessment.

Environmental Assessment and Criteria Office and Office of Solid Waste and Emergency Response. Washington, D.C. July 1997.

U.S. Environmental Protection Agency (EPA). 2001. *Risk assessment guidance for Superfund. Volume I: Human health evaluation manual. Part D, Standardized planning, reporting, and review of Superfund risk assessments. Final.* Office of Solid Waste and Emergency Response. Washington, D.C. December 2001.

U.S. Environmental Protection Agency (EPA). 2002. *Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites.* OSWER 9285.6-10 Office of Emergency and Remedial Response, Washington, DC. December 2002.

U.S. Environmental Protection Agency (EPA). 2003a. *Recommendations of the Technical Review Workgroup for lead for an approach to assessing risk associated with adult exposures to lead in soil.* Technical Review Workgroup for Lead. United States Environmental Protection Agency. January 2003.

U.S. Environmental Protection Agency (EPA). 2003b. *Assessing Intermittent or Variable Exposures at Lead Sites.* OSWER 9285.7-76. Office of Solid Waste and Emergency Response, Washington, DC. November 2003.

U.S. Environmental Protection Agency (EPA). 2004. *Risk assessment guidance for Superfund Volume I: Human health evaluation manual (Part E, Supplemental guidance for dermal risk assessment), interim guidance.* Office of Superfund Remediation and Technology Innovation. Washington, D.C. EPA/540/R/99/005. July 2004.

U.S. Environmental Protection Agency (EPA). 2005. *Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens*. EPA/630/R-03/003F. March 2005.

U.S. Environmental Protection Agency (EPA). 2009. *Update of the adult lead methodology's default baseline blood lead concentration and geometric standard deviation parameters.* Technical Review Workgroup for Lead. Office of Superfund Remediation and Technology Innovation. June 2009.

U.S. Environmental Protection Agency (EPA). 2011a. *ProUCL Version 4.1 for Environmental Applications for Data Sets with and without Nondetect Observations.* Prepared for EPA by Lockheed Martin Environmental Services. March 2011.

U.S. Environmental Protection Agency (EPA). 2011b. *Exposure factors handbook.* Office of Research and Development. Washington, D.C. September 2011.

U.S. Environmental Protection Agency (EPA). 2012. *Regional Screening Levels.* http://www.epa.gov/region9/superfund/prg/. November 2012.

U.S. Environmental Protection Agency (EPA). 2013. *Integrated risk information system (IRIS).* Environmental Criterion and Assessment Office. March 2013.

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Appendix C.1

Soil Analytical Data Summaries

Appendix C.1 - Table C.1-1
Summary of Analytical Results for Hydro Property Soil COPCs -- 0 to 2 Foot Interval
Little Falls Site
Windham and Gorham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																	
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	5	3	60.0%	16	24	H-GP-3	10	10	1.6E+01	2.4E+01	Maximum
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	5	1	20.0%	0.12	0.12	H-GP-3	0.1	0.11	1.1E-01	1.2E-01	Maximum
PCBs																	
	Total PCBs	N/A	12	7	N/A	N/A	5	1	20.0%	0.175	0.175	H-TP-4	0.098	0.11	1.2E-01	1.8E-01	Maximum
Metals, total																	
	Aluminum	N/A	1,000,000	310,000	63,000	N/A	5	5	100.0%	5300	14000	H-GP-3	--	--	7.3E+03	1.4E+04	Maximum
	Arsenic	N/A	4	42	15	N/A	5	1	20.0%	3.6	3.6	H-TP-1	2.45	2.8	2.8E+00	3.6E+00	Maximum
	Chromium^	N/A	5,100	2,800	N/A	N/A	5	5	100.0%	9.7	85	H-TP-4	--	--	3.2E+01	8.5E+01	Maximum
	Cobalt	N/A	510	920	15	N/A	5	5	100.0%	4.3	11	H-GP-3	--	--	6.6E+00	1.1E+01	Maximum
	Iron	N/A	1,000,000	220,000	40,000	N/A	5	5	100.0%	8900	60000	H-TP-4	--	--	2.2E+04	6.0E+04	Maximum
	Lead	N/A	1,100	950	N/A	N/A	5	5	100.0%	4.6	45.5	H-TP-4	--	--	1.5E+01	4.6E+01	Maximum
	Manganese	N/A	10,000	7,400	1,100	N/A	5	5	100.0%	140	585	H-TP-4	--	--	2.6E+02	5.9E+02	Maximum
	Vanadium	N/A	10,000	2,200	100	N/A	5	5	100.0%	14	41	H-GP-3	--	--	2.3E+01	4.1E+01	Maximum

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
N/A - Not applicable/available.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.
** - For reference purposes only.
^ - RAGs for Chromium (+6) used.
EPC - Exposure point concentration.

Appendix C.1 - Table C.1-2
Summary of Analytical Results for Hydro Property Soil COPCs -- 0 to 15 Foot Interval
Little Falls Site
Windham and Gorham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																	
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	10	8	80.0%	16	620	H-GP-3	10	10	1.3E+02	6.2E+02	Maximum
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	10	5	50.0%	0.65	13	H-GP-3	0.1	0.11	2.3E+00	1.3E+01	Maximum
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	10	5	50.0%	0.88	12	H-GP-3	0.1	0.11	2.5E+00	1.2E+01	Maximum
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	10	5	50.0%	1.3	18	H-GP-3	0.1	0.11	3.8E+00	1.8E+01	Maximum
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	10	5	50.0%	0.42	6.5	H-GP-3	0.1	0.11	1.4E+00	6.5E+00	Maximum
	Chrysene	N/A	3,500	10,000	3.76	4.1	10	5	50.0%	0.99	17	H-GP-3	0.1	0.11	3.3E+00	1.7E+01	Maximum
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	10	5	50.0%	0.19	2.6	H-GP-3	0.1	0.11	5.9E-01	2.6E+00	Maximum
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	10	6	60.0%	0.12	9	H-GP-3	0.1	0.11	2.0E+00	9.0E+00	Maximum
	Naphthalene	1.7	10,000	10,000	0.41	0.8368	10	4	40.0%	0.14	7	H-GP-3	0.1	0.11	8.5E-01	7.0E+00	Maximum
PCBs																	
	Total PCBs	N/A	12	7	N/A	N/A	10	1	10.0%	0.175	0.175	H-TP-4	0.098	0.14	1.2E-01	1.8E-01	Maximum
Metals, total																	
	Aluminum	N/A	1,000,000	310,000	63,000	N/A	10	10	100.0%	5300	17000	H-TP-1	--	--	1.0E+04	1.3E+04	95% Student's-t UCL
	Antimony	N/A	680	120	1	N/A	10	1	10.0%	5.7	5.7	H-TP-1	2.4	3.3	3.0E+00	5.7E+00	Maximum
	Arsenic	N/A	4	42	15	N/A	10	6	60.0%	3.6	18	H-TP-1	2.45	2.8	6.0E+00	1.8E+01	Maximum
	Chromium^	N/A	5,100	2,800	N/A	N/A	10	10	100.0%	9.7	85	H-TP-4	--	--	3.7E+01	5.0E+01	95% Student's-t UCL
	Cobalt	N/A	510	920	15	N/A	10	10	100.0%	4.3	13	H-TP-1	--	--	8.6E+00	1.0E+01	95% Student's-t UCL
	Iron	N/A	1,000,000	220,000	40,000	N/A	10	10	100.0%	8900	60000	H-TP-4	--	--	2.1E+04	3.1E+04	95% Approximate Gamma UCL
	Lead	N/A	1,100	950	N/A	N/A	10	10	100.0%	4.6	750	H-TP-1	--	--	1.6E+02	4.4E+02	95% Approximate Gamma UCL
	Manganese	N/A	10,000	7,400	1,100	N/A	10	10	100.0%	140	590	H-TP-1	--	--	3.1E+02	4.1E+02	95% Student's-t UCL
	Vanadium	N/A	10,000	2,200	100	N/A	10	10	100.0%	14	120	H-TP-1	--	--	4.2E+01	6.5E+01	95% Approximate Gamma UCL

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

EPC - Exposure point concentration.

Appendix C.1 - Table C.1-3
Summary of Analytical Results for Northern Transmission Line Property Soil COPCs -- 0 to 2 Foot Interval
Little Falls Site
Windham and Gorham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																	
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	21	20	95.2%	15	520	T-GP-13	11	11	8.5E+01	5.2E+02	Maximum
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	21	11	52.4%	0.19	1.5	T-GP-2	0.11	0.69	3.8E-01	1.5E+00	Maximum
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	21	6	28.6%	0.33	1.9	T-GP-2	0.11	0.69	3.7E-01	1.9E+00	Maximum
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	21	11	52.4%	0.29	2.5	T-GP-2	0.11	0.69	5.1E-01	2.5E+00	Maximum
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	21	8	38.1%	0.14	0.94	T-GP-2	0.11	0.69	2.5E-01	9.4E-01	Maximum
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	21	3	14.3%	0.16	0.32	T-GP-2	0.11	0.69	1.8E-01	3.2E-01	Maximum
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	21	10	47.6%	0.195	1.3	T-GP-2	0.11	0.69	3.2E-01	1.3E+00	Maximum
PCBs																	
	Total PCBs	N/A	12	7	N/A	N/A	21	14	66.7%	0.14	8.4	T-GP-7	0.13	0.15	1.2E+00	8.4E+00	Maximum
Metals, total																	
	Aluminum	N/A	1,000,000	310,000	63,000	N/A	21	21	100.0%	2300	28000	T-TP-4	--	--	1.2E+04	2.8E+04	Maximum
	Antimony	N/A	680	120	1	N/A	21	7	33.3%	3.275	65	T-GP-14	2.8	3.8	1.0E+01	6.5E+01	Maximum
	Arsenic	N/A	4	42	15	N/A	21	15	71.4%	2.825	21	T-GP-18	2.8	3.4	8.9E+00	1.1E+01	95% KM (t) UCL
	Chromium^	N/A	5,100	2,800	N/A	N/A	21	21	100.0%	21	220	T-GP-2	--	--	7.6E+01	2.2E+02	Maximum
	Cobalt	N/A	510	920	15	N/A	21	21	100.0%	5.1	21	T-GP-7	--	--	1.1E+01	2.1E+01	Maximum
	Copper	N/A	10,000	4,300	28	N/A	21	21	100.0%	37	1700	T-TP-7	--	--	2.9E+02	1.7E+03	Maximum
	Iron	N/A	1,000,000	220,000	40,000	N/A	21	21	100.0%	12000	110000	T-GP-2	--	--	3.7E+04	1.1E+05	Maximum
	Lead	N/A	1,100	950	N/A	N/A	21	21	100.0%	22	4300	T-GP-14	--	--	7.7E+02	1.3E+03	95% Approximate Gamma UCL
	Manganese	N/A	10,000	7,400	1,100	N/A	21	21	100.0%	130	1100	T-GP-17	--	--	5.0E+02	1.1E+03	Maximum
	Mercury	N/A	510	930	N/A	N/A	21	20	95.2%	0.13	30	T-GP-4	0.028	0.028	3.1E+00	3.0E+01	Maximum
	Vanadium	N/A	10,000	2,200	100	N/A	21	21	100.0%	14.5	89	T-TP-4	--	--	4.4E+01	8.9E+01	Maximum
	Cyanide	N/A	1,000	1,900	N/A	N/A	21	14	66.7%	0.68	17	T-GP-18	0.33	0.67	3.6E+00	1.7E+01	Maximum

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

EPC - Exposure point concentration.

Appendix C.1 - Table C.1-4
Summary of Analytical Results for Northern Transmission Line Property Soil COPCs -- 0 to 15 Foot Interval
Little Falls
Windham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																	
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	29	27	93.1%	15	520	T-GP-13	11	11	8.3E+01	1.7E+02	95% KM (Chebyshev) UCL
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	29	16	55.2%	0.19	5.1	T-TP-1	0.11	0.69	5.4E-01	8.5E-01	95% KM (t) UCL
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	29	11	37.9%	0.31	5.3	T-TP-1	0.11	0.69	5.7E-01	9.7E-01	95% KM (t) UCL
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	29	16	55.2%	0.29	6.3	T-TP-1	0.11	0.69	7.2E-01	1.2E+00	95% KM (t) UCL
	Benzo(k)fluoranthene	N/A	350	4,300	2.228	3.225	29	11	37.9%	0.14	2.3	T-TP-1	0.11	0.69	3.1E-01	4.3E-01	95% KM (t) UCL
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	29	5	17.2%	0.16	1	T-TP-1	0.11	0.69	2.1E-01	1.0E+00	Maximum
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	29	15	51.7%	0.13	3.8	T-TP-1	0.11	0.69	4.4E-01	6.5E-01	95% KM (t) UCL
PCBs																	
	Total PCBs	N/A	12	7	N/A	N/A	29	15	51.7%	0.11	8.4	T-GP-7	0.11	0.19	9.4E-01	3.1E+00	97.5% KM (Chebyshev) UCL
Metals, total																	
	Aluminum	N/A	1,000,000	310,000	63,000	N/A	29	29	100.0%	2300	28000	T-TP-4	--	--	1.2E+04	1.4E+04	95% Student's-t UCL
	Antimony	N/A	680	120	1	N/A	29	10	34.5%	3.275	65	T-GP-14	2.8	4.8	9.3E+00	1.4E+01	95% KM (t) UCL
	Arsenic	N/A	4	42	15	N/A	29	23	79.3%	2.825	36	T-TP-1	2.8	3.4	1.0E+01	1.3E+01	95% KM (Percentile Bootstrap) UCL
	Chromium^	N/A	5,100	2,800	N/A	N/A	29	29	100.0%	17	220	T-GP-2	--	--	7.4E+01	8.8E+01	95% Approximate Gamma UCL
	Cobalt	N/A	510	920	15	N/A	29	29	100.0%	5.1	21	T-GP-7	--	--	1.1E+01	1.2E+01	95% Student's-t UCL
	Copper	N/A	10,000	4,300	28	N/A	29	29	100.0%	22	3200	T-GP-14	--	--	4.1E+02	7.1E+02	95% H-UCL
	Iron	N/A	1,000,000	220,000	40,000	N/A	29	29	100.0%	12000	110000	T-GP-2	--	--	3.7E+04	4.5E+04	95% Approximate Gamma UCL
	Lead	N/A	1,100	950	N/A	N/A	29	29	100.0%	22	5000	T-TP-7	--	--	9.7E+02	1.5E+03	95% Approximate Gamma UCL
	Manganese	N/A	10,000	7,400	1,100	N/A	29	29	100.0%	130	1100	T-GP-17	--	--	4.7E+02	5.4E+02	95% Student's-t UCL
	Mercury	N/A	510	930	N/A	N/A	29	27	93.1%	0.13	30	T-GP-4	0.028	0.028	2.8E+00	9.5E+00	97.5% KM (Chebyshev) UCL
	Vanadium	N/A	10,000	2,200	100	N/A	29	29	100.0%	10	89	T-TP-4	--	--	4.2E+01	4.8E+01	95% Student's-t UCL
	Cyanide	N/A	1,000	1,900	N/A	N/A	29	21	72.4%	0.68	17	T-GP-18	0.33	0.67	3.6E+00	4.9E+00	95% KM (Percentile Bootstrap) UCL

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

EPC - Exposure point concentration.

Appendix C.1 - Table C.1-5
Summary of Analytical Results for South Bank Area Soil COPCs
Little Falls Site
Windham and Gorham, Maine

Analysis	Analyte	Scenarios and Exposure Pathways*			Maine Background		# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
		Leaching to Groundwater	Outdoor Commercial Worker	Excavation or Construction Worker	Rural (DOT Compact District)	Urban (DOT Compact District)**											
EPH																	
	C11-C22 Aromatics	460	4,500	4,700	N/A	N/A	5	5	100.0%	39	220	T-Bank-4-3	--	--	9.3E+01	2.2E+02	Maximum
	Benzo(a)anthracene	N/A	35	430	2.332	4.15	5	1	20.0%	1.4925	1.4925	T-Bank-4	0.19	0.5	5.3E-01	1.5E+00	Maximum
	Benzo(a)pyrene	N/A	4	43	2.292	4.57	5	1	20.0%	2.8	2.8	T-Bank-4	0.19	0.5	7.9E-01	2.8E+00	Maximum
	Benzo(b)fluoranthene	N/A	35	430	3.452	5.335	5	1	20.0%	3.6	3.6	T-Bank-4	0.19	0.5	9.5E-01	3.6E+00	Maximum
	Dibenz(a,h)anthracene	N/A	4	43	0.48	0.58	5	1	20.0%	0.52	0.52	T-Bank-4	0.19	0.5	3.4E-01	5.2E-01	Maximum
	Indeno(1,2,3-cd)pyrene	N/A	35	430	1.55	2.6	5	1	20.0%	1.1925	1.1925	T-Bank-4	0.19	0.5	4.7E-01	1.2E+00	Maximum
PCBs																	
	Total PCBs	N/A	12	7	N/A	N/A	5	1	20.0%	0.28	0.28	T-Bank-4-4	0.12	0.25	2.0E-01	2.8E-01	Maximum
Metals, total																	
	Aluminum	N/A	1,000,000	310,000	63,000	N/A	5	5	100.0%	2600	13000	T-Bank-4-2	--	--	8.9E+03	1.3E+04	Maximum
	Chromium^	N/A	5,100	2,800	N/A	N/A	5	5	100.0%	6	32	T-Bank-4-2	--	--	2.1E+01	3.2E+01	Maximum
	Cobalt	N/A	510	920	15	N/A	5	3	60.0%	4.9	8.4	T-Bank-4-2	5.1	6.3	6.1E+00	8.4E+00	Maximum
	Iron	N/A	1,000,000	220,000	40,000	N/A	5	5	100.0%	3200	16000	T-Bank-4-2	--	--	1.0E+04	1.6E+04	Maximum
	Manganese	N/A	10,000	7,400	1,100	N/A	5	5	100.0%	85	340	T-Bank-4-2	--	--	1.6E+02	3.4E+02	Maximum

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

N/A - Not applicable/available.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

* - Table 1: Maine Remedial Action Guidelines for Soil, Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances, draft revision January 2012.

** - For reference purposes only.

^ - RAGs for Chromium (+6) used.

EPC - Exposure point concentration.

Appendix C.2

95% UCL Supporting Documentation

Appendix C.2 - 95% UCL Supporting Documentation

	General UCL Statistics for Data Sets with Non-Detects	
User Selected Options		
From File	Sheet 1.wst	
Full Precision	OFF	
Confidence Coefficient	95%	
mber of Bootstrap Operations	2000	

Aluminum_H

General Statistics

Number of Valid Observations	10	Number of Distinct Observations	10
Raw Statistics		**Log-transformed Statistics**	
Minimum	5300	Minimum of Log Data	8.575
Maximum	17000	Maximum of Log Data	9.741
Mean	10235	Mean of log Data	9.141
Geometric Mean	9329	SD of log Data	0.464
Median	10450		
SD	4432		
Std. Error of Mean	1401		
Coefficient of Variation	0.433		
Skewness	0.149		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.89	Shapiro Wilk Test Statistic	0.864
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	12804	95% H-UCL	14536
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	16943
95% Adjusted-CLT UCL (Chen-1995)	12611	97.5% Chebyshev (MVUE) UCL	19831
95% Modified-t UCL (Johnson-1978)	12815	99% Chebyshev (MVUE) UCL	25503
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	3.954	**Data appear Normal at 5% Significance Level**	
Theta Star	2589		
MLE of Mean	10235		
MLE of Standard Deviation	5147		
nu star	79.07		
Approximate Chi Square Value (.05)	59.59	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0267	95% CLT UCL	12540
Adjusted Chi Square Value	56.66	95% Jackknife UCL	12804
		95% Standard Bootstrap UCL	12433
Anderson-Darling Test Statistic	0.599	95% Bootstrap-t UCL	12938
Anderson-Darling 5% Critical Value	0.729	95% Hall's Bootstrap UCL	12270
Kolmogorov-Smirnov Test Statistic	0.243	95% Percentile Bootstrap UCL	12365
Kolmogorov-Smirnov 5% Critical Value	0.267	95% BCA Bootstrap UCL	12670
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	16344
		97.5% Chebyshev(Mean, Sd) UCL	18987
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	24179
95% Approximate Gamma UCL (Use when n >= 40)	13582		
95% Adjusted Gamma UCL (Use when n < 40)	14285		
Potential UCL to Use		Use 95% Student's-t UCL	12804

ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

	A	B	C	D	E	F	G	H	I	J	K	L
66	Chromium^_H											
67												
68					General Statistics							
69					Number of Valid Observations	10				Number of Distinct Observations		10
70												
71					Raw Statistics					Log-transformed Statistics		
72					Minimum	9.7				Minimum of Log Data		2.272
73					Maximum	85				Maximum of Log Data		4.443
74					Mean	36.77				Mean of log Data		3.387
75					Geometric Mean	29.56				SD of log Data		0.742
76					Median	39.5						
77					SD	23.39						
78					Std. Error of Mean	7.397						
79					Coefficient of Variation	0.636						
80					Skewness	0.733						
81												
82					Relevant UCL Statistics							
83					Normal Distribution Test					Lognormal Distribution Test		
84					Shapiro Wilk Test Statistic	0.919				Shapiro Wilk Test Statistic		0.908
85					Shapiro Wilk Critical Value	0.842				Shapiro Wilk Critical Value		0.842
86					Data appear Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
87												
88					Assuming Normal Distribution					Assuming Lognormal Distribution		
89					95% Student's-t UCL	50.33				95% H-UCL		74.1
90					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		77.47
91					95% Adjusted-CLT UCL (Chen-1995)	50.77				97.5% Chebyshev (MVUE) UCL		94.69
92					95% Modified-t UCL (Johnson-1978)	50.61				99% Chebyshev (MVUE) UCL		128.5
93												
94					Gamma Distribution Test					Data Distribution		
95					k star (bias corrected)	1.779				Data appear Normal at 5% Significance Level		
96					Theta Star	20.67						
97					MLE of Mean	36.77						
98					MLE of Standard Deviation	27.57						
99					nu star	35.57						
100					Approximate Chi Square Value (.05)	22.93				Nonparametric Statistics		
101					Adjusted Level of Significance	0.0267				95% CLT UCL		48.94
102					Adjusted Chi Square Value	21.18				95% Jackknife UCL		50.33
103										95% Standard Bootstrap UCL		48.52
104					Anderson-Darling Test Statistic	0.401				95% Bootstrap-t UCL		51.9
105					Anderson-Darling 5% Critical Value	0.734				95% Hall's Bootstrap UCL		53.49
106					Kolmogorov-Smirnov Test Statistic	0.189				95% Percentile Bootstrap UCL		48.47
107					Kolmogorov-Smirnov 5% Critical Value	0.269				95% BCA Bootstrap UCL		49.87
108					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		69.01
109										97.5% Chebyshev(Mean, Sd) UCL		82.96
110					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		110.4
111					95% Approximate Gamma UCL (Use when n >= 40)	57.06						
112					95% Adjusted Gamma UCL (Use when n < 40)	61.77						
113												
114					Potential UCL to Use					Use 95% Student's-t UCL		50.33
115												
116	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
117	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
118	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
119												
120												

	A	B	C	D	E	F	G	H	I	J	K	L
121	Cobalt_H											
122												
123						General Statistics						
124					Number of Valid Observations	10				Number of Distinct Observations		7
125												
126					Raw Statistics					Log-transformed Statistics		
127					Minimum	4.3				Minimum of Log Data		1.459
128					Maximum	13				Maximum of Log Data		2.565
129					Mean	8.605				Mean of log Data		2.088
130					Geometric Mean	8.071				SD of log Data		0.391
131					Median	9.05						
132					SD	3.027						
133					Std. Error of Mean	0.957						
134					Coefficient of Variation	0.352						
135					Skewness	-0.199						
136												
137												
138						Relevant UCL Statistics						
139					Normal Distribution Test					Lognormal Distribution Test		
140					Shapiro Wilk Test Statistic	0.916				Shapiro Wilk Test Statistic		0.889
141					Shapiro Wilk Critical Value	0.842				Shapiro Wilk Critical Value		0.842
142					Data appear Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
143												
144					Assuming Normal Distribution					Assuming Lognormal Distribution		
145					95% Student's-t UCL	10.36				95% H-UCL		11.43
146					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		13.36
147					95% Adjusted-CLT UCL (Chen-1995)	10.12				97.5% Chebyshev (MVUE) UCL		15.4
148					95% Modified-t UCL (Johnson-1978)	10.35				99% Chebyshev (MVUE) UCL		19.4
149												
150					Gamma Distribution Test					Data Distribution		
151					k star (bias corrected)	5.642				Data appear Normal at 5% Significance Level		
152					Theta Star	1.525						
153					MLE of Mean	8.605						
154					MLE of Standard Deviation	3.623						
155					nu star	112.8						
156					Approximate Chi Square Value (.05)	89.32				Nonparametric Statistics		
157					Adjusted Level of Significance	0.0267				95% CLT UCL		10.18
158					Adjusted Chi Square Value	85.69				95% Jackknife UCL		10.36
159										95% Standard Bootstrap UCL		10.12
160					Anderson-Darling Test Statistic	0.527				95% Bootstrap-t UCL		10.38
161					Anderson-Darling 5% Critical Value	0.727				95% Hall's Bootstrap UCL		10.02
162					Kolmogorov-Smirnov Test Statistic	0.199				95% Percentile Bootstrap UCL		10.08
163					Kolmogorov-Smirnov 5% Critical Value	0.267				95% BCA Bootstrap UCL		10.07
164					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		12.78
165										97.5% Chebyshev(Mean, Sd) UCL		14.58
166					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		18.13
167					95% Approximate Gamma UCL (Use when n >= 40)	10.87						
168					95% Adjusted Gamma UCL (Use when n < 40)	11.33						
169												
170					Potential UCL to Use					Use 95% Student's-t UCL		10.36
171												
172	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
173	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
174	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
175												
176					Note: For highly negative-skewed data, confidence limits							
177					(e.g., Chen, Johnson, Lognormal, and Gamma) may not be							
178					reliable. Chen's and Johnson's methods provide							
179					adjustments for positvely skewed data sets.							
180												
181												

	A	B	C	D	E	F	G	H	I	J	K	L
182	Iron_H											
183												
184					General Statistics							
185					Number of Valid Observations	10				Number of Distinct Observations		8
186												
187				Raw Statistics						Log-transformed Statistics		
188					Minimum	8900				Minimum of Log Data		9.094
189					Maximum	60000				Maximum of Log Data		11
190					Mean	21060				Mean of log Data		9.788
191					Geometric Mean	17810				SD of log Data		0.581
192					Median	19500						
193					SD	14930						
194					Std. Error of Mean	4721						
195					Coefficient of Variation	0.709						
196					Skewness	2.257						
197												
198												
199					Relevant UCL Statistics							
200				Normal Distribution Test						Lognormal Distribution Test		
201					Shapiro Wilk Test Statistic	0.728				Shapiro Wilk Test Statistic		0.9
202					Shapiro Wilk Critical Value	0.842				Shapiro Wilk Critical Value		0.842
203				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
204												
205				Assuming Normal Distribution						Assuming Lognormal Distribution		
206					95% Student's-t UCL	29715				95% H-UCL		33160
207				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL		37639
208					95% Adjusted-CLT UCL (Chen-1995)	32427				97.5% Chebyshev (MVUE) UCL		44973
209					95% Modified-t UCL (Johnson-1978)	30277				99% Chebyshev (MVUE) UCL		59379
210												
211				Gamma Distribution Test						Data Distribution		
212					k star (bias corrected)	2.265				Data appear Gamma Distributed at 5% Significance Level		
213					Theta Star	9299						
214					MLE of Mean	21060						
215					MLE of Standard Deviation	13995						
216					nu star	45.29						
217					Approximate Chi Square Value (.05)	30.85				Nonparametric Statistics		
218					Adjusted Level of Significance	0.0267				95% CLT UCL		28826
219					Adjusted Chi Square Value	28.8				95% Jackknife UCL		29715
220										95% Standard Bootstrap UCL		28214
221					Anderson-Darling Test Statistic	0.584				95% Bootstrap-t UCL		37494
222					Anderson-Darling 5% Critical Value	0.732				95% Hall's Bootstrap UCL		65214
223					Kolmogorov-Smirnov Test Statistic	0.227				95% Percentile Bootstrap UCL		29140
224					Kolmogorov-Smirnov 5% Critical Value	0.268				95% BCA Bootstrap UCL		31790
225				Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL		41640
226										97.5% Chebyshev(Mean, Sd) UCL		50545
227				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL		68037
228					95% Approximate Gamma UCL (Use when n >= 40)	30915						
229					95% Adjusted Gamma UCL (Use when n < 40)	33125						
230												
231				Potential UCL to Use						Use 95% Approximate Gamma UCL		30915
232												
233	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
234	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
235	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
236												
237												

	A	B	C	D	E	F	G	H	I	J	K	L
238	Lead_H											
239												
240					General Statistics							
241					Number of Valid Observations	10				Number of Distinct Observations		10
242												
243					Raw Statistics					Log-transformed Statistics		
244					Minimum	4.6				Minimum of Log Data		1.526
245					Maximum	750				Maximum of Log Data		6.62
246					Mean	161				Mean of log Data		3.91
247					Geometric Mean	49.91				SD of log Data		1.834
248					Median	69.75						
249					SD	231.2						
250					Std. Error of Mean	73.1						
251					Coefficient of Variation	1.436						
252					Skewness	2.146						
253												
254					Relevant UCL Statistics							
255					Normal Distribution Test					Lognormal Distribution Test		
256					Shapiro Wilk Test Statistic	0.725				Shapiro Wilk Test Statistic		0.919
257					Shapiro Wilk Critical Value	0.842				Shapiro Wilk Critical Value		0.842
258					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
259												
260					Assuming Normal Distribution					Assuming Lognormal Distribution		
261					95% Student's-t UCL	295				95% H-UCL		5678
262					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		700.3
263					95% Adjusted-CLT UCL (Chen-1995)	334.3				97.5% Chebyshev (MVUE) UCL		919.9
264					95% Modified-t UCL (Johnson-1978)	303.3				99% Chebyshev (MVUE) UCL		1351
265												
266					Gamma Distribution Test					Data Distribution		
267					k star (bias corrected)	0.442				Data appear Gamma Distributed at 5% Significance Level		
268					Theta Star	364.1						
269					MLE of Mean	161						
270					MLE of Standard Deviation	242.1						
271					nu star	8.844						
272					Approximate Chi Square Value (.05)	3.233				Nonparametric Statistics		
273					Adjusted Level of Significance	0.0267				95% CLT UCL		281.2
274					Adjusted Chi Square Value	2.672				95% Jackknife UCL		295
275										95% Standard Bootstrap UCL		274.3
276					Anderson-Darling Test Statistic	0.361				95% Bootstrap-t UCL		438.4
277					Anderson-Darling 5% Critical Value	0.774				95% Hall's Bootstrap UCL		749.2
278					Kolmogorov-Smirnov Test Statistic	0.203				95% Percentile Bootstrap UCL		283.7
279					Kolmogorov-Smirnov 5% Critical Value	0.28				95% BCA Bootstrap UCL		348.2
280					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		479.6
281										97.5% Chebyshev(Mean, Sd) UCL		617.5
282					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		888.3
283					95% Approximate Gamma UCL (Use when n >= 40)	440.4						
284					95% Adjusted Gamma UCL (Use when n < 40)	533						
285												
286					Potential UCL to Use					Use 95% Approximate Gamma UCL		440.4
287												
288	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
289	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
290	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
291												
292												

	A	B	C	D	E	F	G	H	I	J	K	L
293	Manganese_H											
294												
295					General Statistics							
296					Number of Valid Observations	10			Number of Distinct Observations			10
297												
298					Raw Statistics				Log-transformed Statistics			
299					Minimum	140			Minimum of Log Data			4.942
300					Maximum	590			Maximum of Log Data			6.38
301					Mean	314.5			Mean of log Data			5.634
302					Geometric Mean	279.7			SD of log Data			0.511
303					Median	285						
304					SD	163.1						
305					Std. Error of Mean	51.57						
306					Coefficient of Variation	0.519						
307					Skewness	0.898						
308												
309					Relevant UCL Statistics							
310					Normal Distribution Test				Lognormal Distribution Test			
311					Shapiro Wilk Test Statistic	0.865			Shapiro Wilk Test Statistic			0.927
312					Shapiro Wilk Critical Value	0.842			Shapiro Wilk Critical Value			0.842
313					Data appear Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level			
314												
315					Assuming Normal Distribution				Assuming Lognormal Distribution			
316					95% Student's-t UCL	409			95% H-UCL			466
317					95% UCLs (Adjusted for Skewness)				95% Chebyshev (MVUE) UCL			539.2
318					95% Adjusted-CLT UCL (Chen-1995)	415			97.5% Chebyshev (MVUE) UCL			636.7
319					95% Modified-t UCL (Johnson-1978)	411.5			99% Chebyshev (MVUE) UCL			828
320												
321					Gamma Distribution Test				Data Distribution			
322					k star (bias corrected)	3.16			Data appear Normal at 5% Significance Level			
323					Theta Star	99.53						
324					MLE of Mean	314.5						
325					MLE of Standard Deviation	176.9						
326					nu star	63.2						
327					Approximate Chi Square Value (.05)	45.91			Nonparametric Statistics			
328					Adjusted Level of Significance	0.0267			95% CLT UCL			399.3
329					Adjusted Chi Square Value	43.36			95% Jackknife UCL			409
330									95% Standard Bootstrap UCL			393
331					Anderson-Darling Test Statistic	0.378			95% Bootstrap-t UCL			464.6
332					Anderson-Darling 5% Critical Value	0.729			95% Hall's Bootstrap UCL			497.8
333					Kolmogorov-Smirnov Test Statistic	0.175			95% Percentile Bootstrap UCL			400
334					Kolmogorov-Smirnov 5% Critical Value	0.268			95% BCA Bootstrap UCL			405.5
335					Data appear Gamma Distributed at 5% Significance Level				95% Chebyshev(Mean, Sd) UCL			539.3
336									97.5% Chebyshev(Mean, Sd) UCL			636.5
337					Assuming Gamma Distribution				99% Chebyshev(Mean, Sd) UCL			827.6
338					95% Approximate Gamma UCL (Use when n >= 40)	432.9						
339					95% Adjusted Gamma UCL (Use when n < 40)	458.4						
340												
341					Potential UCL to Use				Use 95% Student's-t UCL			409
342												
343	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
344	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
345	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
346												
347												

	A	B	C	D	E	F	G	H	I	J	K	L
348	Vanadium_H											
349												
350					General Statistics							
351					Number of Valid Observations	10			Number of Distinct Observations			9
352												
353					Raw Statistics				Log-transformed Statistics			
354					Minimum	14			Minimum of Log Data			2.639
355					Maximum	120			Maximum of Log Data			4.787
356					Mean	42.15			Mean of log Data			3.534
357					Geometric Mean	34.26			SD of log Data			0.673
358					Median	43.5						
359					SD	30.94						
360					Std. Error of Mean	9.784						
361					Coefficient of Variation	0.734						
362					Skewness	1.921						
363												
364												
365					Relevant UCL Statistics							
366					Normal Distribution Test				Lognormal Distribution Test			
367					Shapiro Wilk Test Statistic	0.771			Shapiro Wilk Test Statistic			0.907
368					Shapiro Wilk Critical Value	0.842			Shapiro Wilk Critical Value			0.842
369					Data not Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level			
370												
371					Assuming Normal Distribution				Assuming Lognormal Distribution			
372					95% Student's-t UCL	60.09			95% H-UCL			75.11
373					95% UCLs (Adjusted for Skewness)				95% Chebyshev (MVUE) UCL			81.86
374					95% Adjusted-CLT UCL (Chen-1995)	64.59			97.5% Chebyshev (MVUE) UCL			99.16
375					95% Modified-t UCL (Johnson-1978)	61.08			99% Chebyshev (MVUE) UCL			133.2
376												
377					Gamma Distribution Test				Data Distribution			
378					k star (bias corrected)	1.863			Data appear Gamma Distributed at 5% Significance Level			
379					Theta Star	22.62						
380					MLE of Mean	42.15						
381					MLE of Standard Deviation	30.88						
382					nu star	37.27						
383					Approximate Chi Square Value (.05)	24.29			Nonparametric Statistics			
384					Adjusted Level of Significance	0.0267			95% CLT UCL			58.24
385					Adjusted Chi Square Value	22.48			95% Jackknife UCL			60.09
386									95% Standard Bootstrap UCL			57.44
387					Anderson-Darling Test Statistic	0.538			95% Bootstrap-t UCL			70.24
388					Anderson-Darling 5% Critical Value	0.734			95% Hall's Bootstrap UCL			131
389					Kolmogorov-Smirnov Test Statistic	0.213			95% Percentile Bootstrap UCL			60.3
390					Kolmogorov-Smirnov 5% Critical Value	0.269			95% BCA Bootstrap UCL			65.3
391					Data appear Gamma Distributed at 5% Significance Level				95% Chebyshev(Mean, Sd) UCL			84.8
392									97.5% Chebyshev(Mean, Sd) UCL			103.3
393					Assuming Gamma Distribution				99% Chebyshev(Mean, Sd) UCL			139.5
394					95% Approximate Gamma UCL (Use when n >= 40)	64.67						
395					95% Adjusted Gamma UCL (Use when n < 40)	69.86						
396												
397					Potential UCL to Use				Use 95% Approximate Gamma UCL			64.67
398												
399	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
400	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
401	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
402												
403												

	A	B	C	D	E	F	G	H	I	J	K	L
404	C11-C22 Aromatics_T											
405												
406						General Statistics						
407					Number of Valid Data	29					Number of Detected Data	27
408					Number of Distinct Detected Data	23					Number of Non-Detect Data	2
409											Percent Non-Detects	6.90%
410												
411					Raw Statistics						Log-transformed Statistics	
412					Minimum Detected	15					Minimum Detected	2.708
413					Maximum Detected	520					Maximum Detected	6.254
414					Mean of Detected	88.81					Mean of Detected	4.043
415					SD of Detected	110.7					SD of Detected	0.887
416					Minimum Non-Detect	11					Minimum Non-Detect	2.398
417					Maximum Non-Detect	11					Maximum Non-Detect	2.398
418												
419												
420						UCL Statistics						
421				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
422					Shapiro Wilk Test Statistic	0.619					Shapiro Wilk Test Statistic	0.948
423					5% Shapiro Wilk Critical Value	0.923					5% Shapiro Wilk Critical Value	0.923
424				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
425												
426				Assuming Normal Distribution						Assuming Lognormal Distribution		
427					DL/2 Substitution Method						DL/2 Substitution Method	
428					Mean	83.07					Mean	3.881
429					SD	108.8					SD	1.046
430					95% DL/2 (t) UCL	117.4					95% H-Stat (DL/2) UCL	138.1
431												
432					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
433					Mean	78.7					Mean in Log Scale	3.898
434					SD	112.2					SD in Log Scale	1.013
435					95% MLE (t) UCL	114.1					Mean in Original Scale	83.18
436					95% MLE (Tiku) UCL	111.7					SD in Original Scale	108.8
437											95% t UCL	117.5
438											95% Percentile Bootstrap UCL	118.4
439											95% BCA Bootstrap UCL	129.5
440											95% H UCL	132.5
441												
442				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
443					k star (bias corrected)	1.151				Data appear Lognormal at 5% Significance Level		
444					Theta Star	77.18						
445					nu star	62.14						
446												
447					A-D Test Statistic	1.215				Nonparametric Statistics		
448					5% A-D Critical Value	0.768					Kaplan-Meier (KM) Method	
449					K-S Test Statistic	0.768					Mean	83.72
450					5% K-S Critical Value	0.172					SD	106.5
451				Data not Gamma Distributed at 5% Significance Level							SE of Mean	20.15
452											95% KM (t) UCL	118
453				Assuming Gamma Distribution							95% KM (z) UCL	116.9
454					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	117.9
455					Minimum	1E-06					95% KM (bootstrap t) UCL	147.1
456					Maximum	520					95% KM (BCA) UCL	119.8
457					Mean	82.69					95% KM (Percentile Bootstrap) UCL	118.1
458					Median	51					95% KM (Chebyshev) UCL	171.6
459					SD	109.1					97.5% KM (Chebyshev) UCL	209.6
460					k star	0.389					99% KM (Chebyshev) UCL	284.2
461					Theta star	212.3						
462					Nu star	22.59				Potential UCLs to Use		
463					AppChi2	12.78					95% KM (Chebyshev) UCL	171.6
464					95% Gamma Approximate UCL (Use when n >= 40)	146.1						
465					95% Adjusted Gamma UCL (Use when n < 40)	151.4						
466	Note: DL/2 is not a recommended method.											
467												
468	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
469	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
470					For additional insight, the user may want to consult a statistician.							
471												
472												

	A	B	C	D	E	F	G	H	I	J	K	L
473	Benzo(a)anthracene_T											
474												
475					General Statistics							
476					Number of Valid Data	29			Number of Detected Data			16
477					Number of Distinct Detected Data	14			Number of Non-Detect Data			13
478									Percent Non-Detects			44.83%
479												
480				Raw Statistics					Log-transformed Statistics			
481					Minimum Detected	0.19			Minimum Detected			-1.661
482					Maximum Detected	5.1			Maximum Detected			1.629
483					Mean of Detected	0.832			Mean of Detected			-0.659
484					SD of Detected	1.197			SD of Detected			0.883
485					Minimum Non-Detect	0.11			Minimum Non-Detect			-2.207
486					Maximum Non-Detect	0.69			Maximum Non-Detect			-0.371
487												
488	Note: Data have multiple DLs - Use of KM Method is recommen								Number treated as Non-Detect			23
489	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			6
490	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			79.31%
491												
492					UCL Statistics							
493				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
494					Shapiro Wilk Test Statistic	0.532			Shapiro Wilk Test Statistic			0.902
495					5% Shapiro Wilk Critical Value	0.887			5% Shapiro Wilk Critical Value			0.887
496				Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level			
497												
498				Assuming Normal Distribution					Assuming Lognormal Distribution			
499					DL/2 Substitution Method				DL/2 Substitution Method			
500					Mean	0.499			Mean			-1.52
501					SD	0.954			SD			1.211
502					95% DL/2 (t) UCL	0.801			95% H-Stat (DL/2) UCL			0.852
503												
504					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
505					MLE yields a negative mean				Mean in Log Scale			-1.61
506									SD in Log Scale			1.29
507									Mean in Original Scale			0.49
508									SD in Original Scale			0.958
509									95% t UCL			0.792
510									95% Percentile Bootstrap UCL			0.804
511									95% BCA Bootstrap UCL			1.021
512									95% H-UCL			0.92
513												
514				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
515					k star (bias corrected)	1.01	Data Follow Appr. Gamma Distribution at 5% Significance Level					
516					Theta Star	0.824						
517					nu star	32.31						
518												
519					A-D Test Statistic	1.05			Nonparametric Statistics			
520					5% A-D Critical Value	0.76			Kaplan-Meier (KM) Method			
521					K-S Test Statistic	0.76			Mean			0.546
522					5% K-S Critical Value	0.22			SD			0.917
523	Data follow Appr. Gamma Distribution at 5% Significance Level								SE of Mean			0.176
524									95% KM (t) UCL			0.845
525				Assuming Gamma Distribution					95% KM (z) UCL			0.836
526				Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL			0.834
527					Minimum	1E-06			95% KM (bootstrap t) UCL			1.427
528					Maximum	5.1			95% KM (BCA) UCL			0.887
529					Mean	0.459			95% KM (Percentile Bootstrap) UCL			0.866
530					Median	0.21			95% KM (Chebyshev) UCL			1.313
531					SD	0.972			97.5% KM (Chebyshev) UCL			1.645
532					k star	0.144			99% KM (Chebyshev) UCL			2.297
533					Theta star	3.186						
534					Nu star	8.355			Potential UCLs to Use			
535					AppChi2	2.942			95% KM (t) UCL			0.845
536				95% Gamma Approximate UCL (Use when n >= 40)		1.303						
537				95% Adjusted Gamma UCL (Use when n < 40)		1.393						
538	Note: DL/2 is not a recommended method.											
539												
540	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
541	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
542					For additional insight, the user may want to consult a statistician.							
543												
544												

	A	B	C	D	E	F	G	H	I	J	K	L
545	Benzo(a)pyrene_T											
546												
547						General Statistics						
548					Number of Valid Data	29				Number of Detected Data		11
549					Number of Distinct Detected Data	11				Number of Non-Detect Data		18
550										Percent Non-Detects		62.07%
551												
552				Raw Statistics						Log-transformed Statistics		
553					Minimum Detected	0.31				Minimum Detected		-1.171
554					Maximum Detected	5.3				Maximum Detected		1.668
555					Mean of Detected	1.223				Mean of Detected		-0.196
556					SD of Detected	1.441				SD of Detected		0.857
557					Minimum Non-Detect	0.11				Minimum Non-Detect		-2.207
558					Maximum Non-Detect	0.69				Maximum Non-Detect		-0.371
559												
560	Note: Data have multiple DLs - Use of KM Method is recommen									Number treated as Non-Detect		23
561	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		6
562	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		79.31%
563												
564						UCL Statistics						
565				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
566					Shapiro Wilk Test Statistic	0.644				Shapiro Wilk Test Statistic		0.926
567					5% Shapiro Wilk Critical Value	0.85				5% Shapiro Wilk Critical Value		0.85
568				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
569												
570				Assuming Normal Distribution						Assuming Lognormal Distribution		
571					DL/2 Substitution Method					DL/2 Substitution Method		
572					Mean	0.516				Mean		-1.691
573					SD	1.03				SD		1.335
574					95% DL/2 (t) UCL	0.841				95% H-Stat (DL/2) UCL		0.936
575												
576					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
577					MLE yields a negative mean					Mean in Log Scale		-1.794
578										SD in Log Scale		1.447
579										Mean in Original Scale		0.509
580										SD in Original Scale		1.032
581										95% t UCL		0.835
582										95% Percentile Bootstrap UCL		0.856
583										95% BCA Bootstrap UCL		1.031
584										95% H-UCL		1.095
585												
586				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
587					k star (bias corrected)	1.08				Data appear Gamma Distributed at 5% Significance Level		
588					Theta Star	1.132						
589					nu star	23.76						
590												
591					A-D Test Statistic	0.617				Nonparametric Statistics		
592					5% A-D Critical Value	0.744				Kaplan-Meier (KM) Method		
593					K-S Test Statistic	0.744				Mean		0.657
594					5% K-S Critical Value	0.26				SD		0.955
595				Data appear Gamma Distributed at 5% Significance Level						SE of Mean		0.186
596										95% KM (t) UCL		0.973
597				Assuming Gamma Distribution						95% KM (z) UCL		0.963
598					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		0.954
599					Minimum	1E-06				95% KM (bootstrap t) UCL		1.565
600					Maximum	5.3				95% KM (BCA) UCL		1.08
601					Mean	0.464				95% KM (Percentile Bootstrap) UCL		1.016
602					Median	1E-06				95% KM (Chebyshev) UCL		1.468
603					SD	1.052				97.5% KM (Chebyshev) UCL		1.818
604					k star	0.115				99% KM (Chebyshev) UCL		2.508
605					Theta star	4.031						
606					Nu star	6.674				Potential UCLs to Use		
607					AppChi2	1.993				95% KM (t) UCL		0.973
608					95% Gamma Approximate UCL (Use when n >= 40)	1.553						
609					95% Adjusted Gamma UCL (Use when n < 40)	1.678						
610	Note: DL/2 is not a recommended method.											
611												
612	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
613	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
614						For additional insight, the user may want to consult a statistician.						
615												
616												

	A	B	C	D	E	F	G	H	I	J	K	L
617	Benzo(b)fluoranthene_T											
618												
619					General Statistics							
620					Number of Valid Data	29			Number of Detected Data			16
621					Number of Distinct Detected Data	16			Number of Non-Detect Data			13
622									Percent Non-Detects			44.83%
623												
624				Raw Statistics					Log-transformed Statistics			
625					Minimum Detected	0.29			Minimum Detected			-1.238
626					Maximum Detected	6.3			Maximum Detected			1.841
627					Mean of Detected	1.164			Mean of Detected			-0.269
628					SD of Detected	1.49			SD of Detected			0.846
629					Minimum Non-Detect	0.11			Minimum Non-Detect			-2.207
630					Maximum Non-Detect	0.69			Maximum Non-Detect			-0.371
631												
632	Note: Data have multiple DLs - Use of KM Method is recommen								Number treated as Non-Detect			22
633	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			7
634	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			75.86%
635												
636					UCL Statistics							
637				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
638					Shapiro Wilk Test Statistic	0.588			Shapiro Wilk Test Statistic			0.909
639					5% Shapiro Wilk Critical Value	0.887			5% Shapiro Wilk Critical Value			0.887
640				Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level			
641												
642				Assuming Normal Distribution					Assuming Lognormal Distribution			
643					DL/2 Substitution Method				DL/2 Substitution Method			
644					Mean	0.682			Mean			-1.304
645					SD	1.22			SD			1.362
646					95% DL/2 (t) UCL	1.068			95% H-Stat (DL/2) UCL			1.465
647												
648					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
649					MLE yields a negative mean				Mean in Log Scale			-1.197
650									SD in Log Scale			1.252
651									Mean in Original Scale			0.689
652									SD in Original Scale			1.216
653									95% t UCL			1.073
654									95% Percentile Bootstrap UCL			1.112
655									95% BCA Bootstrap UCL			1.342
656									95% H-UCL			1.282
657												
658				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
659					k star (bias corrected)	1.123	Data Follow Appr. Gamma Distribution at 5% Significance Level					
660					Theta Star	1.037						
661					nu star	35.93						
662												
663					A-D Test Statistic	0.968			Nonparametric Statistics			
664					5% A-D Critical Value	0.758			Kaplan-Meier (KM) Method			
665					K-S Test Statistic	0.758			Mean			0.774
666					5% K-S Critical Value	0.22			SD			1.156
667	Data follow Appr. Gamma Distribution at 5% Significance Level								SE of Mean			0.222
668									95% KM (t) UCL			1.152
669				Assuming Gamma Distribution					95% KM (z) UCL			1.139
670				Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL			1.142
671					Minimum	1E-06			95% KM (bootstrap t) UCL			1.809
672					Maximum	6.3			95% KM (BCA) UCL			1.208
673					Mean	0.642			95% KM (Percentile Bootstrap) UCL			1.156
674					Median	0.3			95% KM (Chebyshev) UCL			1.741
675					SD	1.24			97.5% KM (Chebyshev) UCL			2.159
676					k star	0.142			99% KM (Chebyshev) UCL			2.981
677					Theta star	4.527						
678					Nu star	8.229			Potential UCLs to Use			
679					AppChi2	2.868			95% KM (t) UCL			1.152
680				95% Gamma Approximate UCL (Use when n >= 40)		1.843						
681				95% Adjusted Gamma UCL (Use when n < 40)		1.97						
682	Note: DL/2 is not a recommended method.											
683												
684	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
685	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
686					For additional insight, the user may want to consult a statistician.							
687												
688												

	A	B	C	D	E	F	G	H	I	J	K	L
689	Benzo(k)fluoranthene_T											
690												
691					General Statistics							
692					Number of Valid Data	29			Number of Detected Data			11
693					Number of Distinct Detected Data	11			Number of Non-Detect Data			18
694									Percent Non-Detects			62.07%
695												
696				Raw Statistics					Log-transformed Statistics			
697					Minimum Detected	0.14			Minimum Detected			-1.966
698					Maximum Detected	2.3			Maximum Detected			0.833
699					Mean of Detected	0.546			Mean of Detected			-0.98
700					SD of Detected	0.625			SD of Detected			0.832
701					Minimum Non-Detect	0.11			Minimum Non-Detect			-2.207
702					Maximum Non-Detect	0.69			Maximum Non-Detect			-0.371
703												
704	Note: Data have multiple DLs - Use of KM Method is recommen								Number treated as Non-Detect			27
705	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			2
706	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			93.10%
707												
708					UCL Statistics							
709				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
710					Shapiro Wilk Test Statistic	0.647			Shapiro Wilk Test Statistic			0.928
711					5% Shapiro Wilk Critical Value	0.85			5% Shapiro Wilk Critical Value			0.85
712				Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level			
713												
714				Assuming Normal Distribution					Assuming Lognormal Distribution			
715					DL/2 Substitution Method				DL/2 Substitution Method			
716					Mean	0.259			Mean			-1.989
717					SD	0.441			SD			0.999
718					95% DL/2 (t) UCL	0.398			95% H-Stat (DL/2) UCL			0.359
719												
720					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
721					MLE method failed to converge properly				Mean in Log Scale			-2.397
722									SD in Log Scale			1.308
723									Mean in Original Scale			0.234
724									SD in Original Scale			0.449
725									95% t UCL			0.376
726									95% Percentile Bootstrap UCL			0.374
727									95% BCA Bootstrap UCL			0.45
728									95% H-UCL			0.435
729												
730				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
731					k star (bias corrected)	1.135			Data appear Gamma Distributed at 5% Significance Level			
732					Theta Star	0.481						
733					nu star	24.97						
734												
735					A-D Test Statistic	0.643			Nonparametric Statistics			
736					5% A-D Critical Value	0.743			Kaplan-Meier (KM) Method			
737					K-S Test Statistic	0.743			Mean			0.296
738					5% K-S Critical Value	0.26			SD			0.416
739				Data appear Gamma Distributed at 5% Significance Level					SE of Mean			0.0812
740									95% KM (t) UCL			0.434
741				Assuming Gamma Distribution					95% KM (z) UCL			0.43
742					Gamma ROS Statistics using Extrapolated Data				95% KM (jackknife) UCL			0.423
743					Minimum	1E-06			95% KM (bootstrap t) UCL			0.717
744					Maximum	2.3			95% KM (BCA) UCL			0.485
745					Mean	0.207			95% KM (Percentile Bootstrap) UCL			0.45
746					Median	1E-06			95% KM (Chebyshev) UCL			0.65
747					SD	0.461			97.5% KM (Chebyshev) UCL			0.803
748					k star	0.121			99% KM (Chebyshev) UCL			1.104
749					Theta star	1.716						
750					Nu star	6.999			Potential UCLs to Use			
751					AppChi2	2.17			95% KM (t) UCL			0.434
752					95% Gamma Approximate UCL (Use when n >= 40)	0.668						
753					95% Adjusted Gamma UCL (Use when n < 40)	0.72						
754	Note: DL/2 is not a recommended method.											
755												
756	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
757	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
758					For additional insight, the user may want to consult a statistician.							
759												
760												

	A	B	C	D	E	F	G	H	I	J	K	L
761	Indeno(1,2,3-cd)pyrene_T											
762												
763						General Statistics						
764					Number of Valid Data	29				Number of Detected Data		15
765					Number of Distinct Detected Data	15				Number of Non-Detect Data		14
766										Percent Non-Detects		48.28%
767												
768					Raw Statistics					Log-transformed Statistics		
769					Minimum Detected	0.13				Minimum Detected		-2.04
770					Maximum Detected	3.8				Maximum Detected		1.335
771					Mean of Detected	0.69				Mean of Detected		-0.836
772					SD of Detected	0.921				SD of Detected		0.905
773					Minimum Non-Detect	0.11				Minimum Non-Detect		-2.207
774					Maximum Non-Detect	0.69				Maximum Non-Detect		-0.371
775												
776	Note: Data have multiple DLs - Use of KM Method is recommen									Number treated as Non-Detect		25
777	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		4
778	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		86.21%
779												
780						UCL Statistics						
781					Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only		
782					Shapiro Wilk Test Statistic	0.587				Shapiro Wilk Test Statistic		0.94
783					5% Shapiro Wilk Critical Value	0.881				5% Shapiro Wilk Critical Value		0.881
784					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
785												
786					Assuming Normal Distribution					Assuming Lognormal Distribution		
787					DL/2 Substitution Method					DL/2 Substitution Method		
788					Mean	0.399				Mean		-1.68
789					SD	0.722				SD		1.142
790					95% DL/2 (t) UCL	0.627				95% H-Stat (DL/2) UCL		0.633
791												
792					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
793					MLE yields a negative mean					Mean in Log Scale		-1.894
794										SD in Log Scale		1.328
795										Mean in Original Scale		0.383
796										SD in Original Scale		0.728
797										95% t UCL		0.612
798										95% Percentile Bootstrap UCL		0.625
799										95% BCA Bootstrap UCL		0.738
800										95% H-UCL		0.752
801												
802					Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only		
803					k star (bias corrected)	1.017	Data Follow Appr. Gamma Distribution at 5% Significance Level					
804					Theta Star	0.678						
805					nu star	30.5						
806												
807					A-D Test Statistic	0.785				Nonparametric Statistics		
808					5% A-D Critical Value	0.759				Kaplan-Meier (KM) Method		
809					K-S Test Statistic	0.759				Mean		0.423
810					5% K-S Critical Value	0.227				SD		0.698
811	Data follow Appr. Gamma Distribution at 5% Significance Level									SE of Mean		0.134
812										95% KM (t) UCL		0.651
813					Assuming Gamma Distribution					95% KM (z) UCL		0.644
814					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		0.637
815					Minimum	1E-06				95% KM (bootstrap t) UCL		1.008
816					Maximum	3.8				95% KM (BCA) UCL		0.703
817					Mean	0.357				95% KM (Percentile Bootstrap) UCL		0.677
818					Median	0.13				95% KM (Chebyshev) UCL		1.008
819					SD	0.74				97.5% KM (Chebyshev) UCL		1.261
820					k star	0.139				99% KM (Chebyshev) UCL		1.759
821					Theta star	2.568						
822					Nu star	8.056				Potential UCLs to Use		
823					AppChi2	2.768				95% KM (t) UCL		0.651
824					95% Gamma Approximate UCL (Use when n >= 40)	1.038						
825					95% Adjusted Gamma UCL (Use when n < 40)	1.112						
826	Note: DL/2 is not a recommended method.											
827												
828	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
829	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
830					For additional insight, the user may want to consult a statistician.							
831												
832												

	A	B	C	D	E	F	G	H	I	J	K	L
833	Total PCBs_T											
834												
835					General Statistics							
836					Number of Valid Data	29			Number of Detected Data			15
837					Number of Distinct Detected Data	15			Number of Non-Detect Data			14
838									Percent Non-Detects			48.28%
839												
840				Raw Statistics					Log-transformed Statistics			
841					Minimum Detected	0.11			Minimum Detected			-2.207
842					Maximum Detected	8.4			Maximum Detected			2.128
843					Mean of Detected	1.679			Mean of Detected			-0.406
844					SD of Detected	2.334			SD of Detected			1.446
845					Minimum Non-Detect	0.11			Minimum Non-Detect			-2.207
846					Maximum Non-Detect	0.19			Maximum Non-Detect			-1.661
847												
848	Note: Data have multiple DLs - Use of KM Method is recommen								Number treated as Non-Detect			18
849	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			11
850	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			62.07%
851												
852					UCL Statistics							
853				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
854					Shapiro Wilk Test Statistic	0.721			Shapiro Wilk Test Statistic			0.907
855					5% Shapiro Wilk Critical Value	0.881			5% Shapiro Wilk Critical Value			0.881
856				Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level			
857												
858				Assuming Normal Distribution					Assuming Lognormal Distribution			
859					DL/2 Substitution Method				DL/2 Substitution Method			
860					Mean	0.902			Mean			-1.495
861					SD	1.842			SD			1.541
862					95% DL/2 (t) UCL	1.484			95% H-Stat (DL/2) UCL			1.868
863												
864					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
865					MLE yields a negative mean				Mean in Log Scale			-2.043
866									SD in Log Scale			2.087
867									Mean in Original Scale			0.883
868									SD in Original Scale			1.851
869									95% t UCL			1.468
870									95% Percentile Bootstrap UCL			1.48
871									95% BCA Bootstrap UCL			1.774
872									95% H-UCL			5.649
873												
874				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
875					k star (bias corrected)	0.572			Data appear Lognormal at 5% Significance Level			
876					Theta Star	2.933						
877					nu star	17.17						
878												
879					A-D Test Statistic	0.787			Nonparametric Statistics			
880					5% A-D Critical Value	0.782			Kaplan-Meier (KM) Method			
881					K-S Test Statistic	0.782			Mean			0.922
882					5% K-S Critical Value	0.232			SD			1.801
883				Data not Gamma Distributed at 5% Significance Level					SE of Mean			0.346
884									95% KM (t) UCL			1.511
885				Assuming Gamma Distribution					95% KM (z) UCL			1.492
886				Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL			1.49
887					Minimum	1E-06			95% KM (bootstrap t) UCL			2.051
888					Maximum	8.4			95% KM (BCA) UCL			1.557
889					Mean	0.868			95% KM (Percentile Bootstrap) UCL			1.551
890					Median	0.11			95% KM (Chebyshev) UCL			2.431
891					SD	1.858			97.5% KM (Chebyshev) UCL			3.084
892					k star	0.129			99% KM (Chebyshev) UCL			4.366
893					Theta star	6.744						
894					Nu star	7.467			Potential UCLs to Use			
895					AppChi2	2.431			97.5% KM (Chebyshev) UCL			3.084
896				95% Gamma Approximate UCL (Use when n >= 40)		2.668						
897				95% Adjusted Gamma UCL (Use when n < 40)		2.866						
898	Note: DL/2 is not a recommended method.											
899												
900	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
901	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
902					For additional insight, the user may want to consult a statistician.							
903												
904												

	A	B	C	D	E	F	G	H	I	J	K	L
905	Aluminum_T											
906												
907						General Statistics						
908					Number of Valid Observations	29				Number of Distinct Observations		23
909												
910					Raw Statistics					Log-transformed Statistics		
911					Minimum	2300				Minimum of Log Data		7.741
912					Maximum	28000				Maximum of Log Data		10.24
913					Mean	11710				Mean of log Data		9.157
914					Geometric Mean	9480				SD of log Data		0.722
915					Median	12000						
916					SD	6806						
917					Std. Error of Mean	1264						
918					Coefficient of Variation	0.581						
919					Skewness	0.47						
920												
921						Relevant UCL Statistics						
922					Normal Distribution Test					Lognormal Distribution Test		
923					Shapiro Wilk Test Statistic	0.934				Shapiro Wilk Test Statistic		0.902
924					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
925					Data appear Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level		
926												
927					Assuming Normal Distribution					Assuming Lognormal Distribution		
928					95% Student's-t UCL	13860				95% H-UCL		16495
929					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		19878
930					95% Adjusted-CLT UCL (Chen-1995)	13907				97.5% Chebyshev (MVUE) UCL		23215
931					95% Modified-t UCL (Johnson-1978)	13879				99% Chebyshev (MVUE) UCL		29769
932												
933					Gamma Distribution Test					Data Distribution		
934					k star (bias corrected)	2.283				Data appear Normal at 5% Significance Level		
935					Theta Star	5129						
936					MLE of Mean	11710						
937					MLE of Standard Deviation	7750						
938					nu star	132.4						
939					Approximate Chi Square Value (.05)	106.8				Nonparametric Statistics		
940					Adjusted Level of Significance	0.0407				95% CLT UCL		13789
941					Adjusted Chi Square Value	105.5				95% Jackknife UCL		13860
942										95% Standard Bootstrap UCL		13776
943					Anderson-Darling Test Statistic	0.821				95% Bootstrap-t UCL		14105
944					Anderson-Darling 5% Critical Value	0.755				95% Hall's Bootstrap UCL		13997
945					Kolmogorov-Smirnov Test Statistic	0.145				95% Percentile Bootstrap UCL		13817
946					Kolmogorov-Smirnov 5% Critical Value	0.164				95% BCA Bootstrap UCL		13710
947					Data follow Appr. Gamma Distribution at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		17219
948										97.5% Chebyshev(Mean, Sd) UCL		19603
949					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		24285
950					95% Approximate Gamma UCL (Use when n >= 40)	14515						
951					95% Adjusted Gamma UCL (Use when n < 40)	14703						
952												
953					Potential UCL to Use					Use 95% Student's-t UCL		13860
954												
955	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
956	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
957	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
958												
959												

	A	B	C	D	E	F	G	H	I	J	K	L
960	Antimony_T											
961												
962						General Statistics						
963						Number of Valid Data	29				Number of Detected Data	10
964						Number of Distinct Detected Data	10				Number of Non-Detect Data	19
965											Percent Non-Detects	65.52%
966												
967					Raw Statistics						Log-transformed Statistics	
968						Minimum Detected	3.275				Minimum Detected	1.186
969						Maximum Detected	65				Maximum Detected	4.174
970						Mean of Detected	20.73				Mean of Detected	2.641
971						SD of Detected	19.07				SD of Detected	0.966
972						Minimum Non-Detect	2.8				Minimum Non-Detect	1.03
973						Maximum Non-Detect	4.8				Maximum Non-Detect	1.569
974												
975	Note: Data have multiple DLs - Use of KM Method is recommen										Number treated as Non-Detect	20
976	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	9
977	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	68.97%
978												
979						UCL Statistics						
980					Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only	
981						Shapiro Wilk Test Statistic	0.848				Shapiro Wilk Test Statistic	0.972
982						5% Shapiro Wilk Critical Value	0.842				5% Shapiro Wilk Critical Value	0.842
983					Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level	
984												
985					Assuming Normal Distribution						Assuming Lognormal Distribution	
986						DL/2 Substitution Method					DL/2 Substitution Method	
987						Mean	8.209				Mean	1.222
988						SD	14.23				SD	1.187
989						95% DL/2 (t) UCL	12.7				95% H-Stat (DL/2) UCL	12.61
990												
991						Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method	
992						MLE yields a negative mean					Mean in Log Scale	0.589
993											SD in Log Scale	1.705
994											Mean in Original Scale	7.64
995											SD in Original Scale	14.51
996											95% t UCL	12.22
997											95% Percentile Bootstrap UCL	12.35
998											95% BCA Bootstrap UCL	13.59
999											95% H-UCL	23.44
1000												
1001					Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only	
1002						k star (bias corrected)	1.064				Data appear Normal at 5% Significance Level	
1003						Theta Star	19.47					
1004						nu star	21.29					
1005												
1006						A-D Test Statistic	0.207				Nonparametric Statistics	
1007						5% A-D Critical Value	0.741				Kaplan-Meier (KM) Method	
1008						K-S Test Statistic	0.741				Mean	9.293
1009						5% K-S Critical Value	0.272				SD	13.48
1010					Data appear Gamma Distributed at 5% Significance Level						SE of Mean	2.639
1011											95% KM (t) UCL	13.78
1012					Assuming Gamma Distribution						95% KM (z) UCL	13.63
1013						Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL	13.08
1014						Minimum	1E-06				95% KM (bootstrap t) UCL	16.23
1015						Maximum	65				95% KM (BCA) UCL	17.95
1016						Mean	7.147				95% KM (Percentile Bootstrap) UCL	14.79
1017						Median	1E-06				95% KM (Chebyshev) UCL	20.8
1018						SD	14.75				97.5% KM (Chebyshev) UCL	25.77
1019						k star	0.0967				99% KM (Chebyshev) UCL	35.55
1020						Theta star	73.88					
1021						Nu star	5.611				Potential UCLs to Use	
1022						AppChi2	1.444				95% KM (t) UCL	13.78
1023						95% Gamma Approximate UCL (Use when n >= 40)	27.76				95% KM (Percentile Bootstrap) UCL	14.79
1024						95% Adjusted Gamma UCL (Use when n < 40)	30.31					
1025	Note: DL/2 is not a recommended method.											
1026												
1027	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1028	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1029						For additional insight, the user may want to consult a statistician.						
1030												
1031												

	A	B	C	D	E	F	G	H	I	J	K	L
1032	Arsenic_T											
1033												
1034						General Statistics						
1035					Number of Valid Data	29				Number of Detected Data		23
1036					Number of Distinct Detected Data	22				Number of Non-Detect Data		6
1037										Percent Non-Detects		20.69%
1038												
1039					Raw Statistics					Log-transformed Statistics		
1040					Minimum Detected	2.825				Minimum Detected		1.039
1041					Maximum Detected	36				Maximum Detected		3.584
1042					Mean of Detected	11.8				Mean of Detected		2.26
1043					SD of Detected	8.17				SD of Detected		0.66
1044					Minimum Non-Detect	2.8				Minimum Non-Detect		1.03
1045					Maximum Non-Detect	3.4				Maximum Non-Detect		1.224
1046												
1047	Note: Data have multiple DLs - Use of KM Method is recommen									Number treated as Non-Detect		7
1048	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		22
1049	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		24.14%
1050												
1051						UCL Statistics						
1052				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
1053					Shapiro Wilk Test Statistic	0.861				Shapiro Wilk Test Statistic		0.982
1054					5% Shapiro Wilk Critical Value	0.914				5% Shapiro Wilk Critical Value		0.914
1055				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
1056												
1057				Assuming Normal Distribution						Assuming Lognormal Distribution		
1058					DL/2 Substitution Method					DL/2 Substitution Method		
1059					Mean	9.673				Mean		1.878
1060					SD	8.392				SD		0.961
1061					95% DL/2 (t) UCL	12.32				95% H-Stat (DL/2) UCL		16.1
1062												
1063					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
1064					Mean	8.598				Mean in Log Scale		1.954
1065					SD	9.733				SD in Log Scale		0.849
1066					95% MLE (t) UCL	11.67				Mean in Original Scale		9.819
1067					95% MLE (Tiku) UCL	11.75				SD in Original Scale		8.251
1068										95% t UCL		12.43
1069										95% Percentile Bootstrap UCL		12.42
1070										95% BCA Bootstrap UCL		12.71
1071										95% H UCL		14.61
1072												
1073				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
1074					k star (bias corrected)	2.253				Data appear Gamma Distributed at 5% Significance Level		
1075					Theta Star	5.238						
1076					nu star	103.6						
1077												
1078					A-D Test Statistic	0.36				Nonparametric Statistics		
1079					5% A-D Critical Value	0.752				Kaplan-Meier (KM) Method		
1080					K-S Test Statistic	0.752				Mean		9.944
1081					5% K-S Critical Value	0.183				SD		7.991
1082				Data appear Gamma Distributed at 5% Significance Level						SE of Mean		1.517
1083										95% KM (t) UCL		12.53
1084				Assuming Gamma Distribution						95% KM (z) UCL		12.44
1085					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		12.42
1086					Minimum	1E-06				95% KM (bootstrap t) UCL		13.1
1087					Maximum	36				95% KM (BCA) UCL		12.91
1088					Mean	9.359				95% KM (Percentile Bootstrap) UCL		12.6
1089					Median	7.6				95% KM (Chebyshev) UCL		16.56
1090					SD	8.724				97.5% KM (Chebyshev) UCL		19.42
1091					k star	0.22				99% KM (Chebyshev) UCL		25.04
1092					Theta star	42.57						
1093					Nu star	12.75				Potential UCLs to Use		
1094					AppChi2	5.727				95% KM (Percentile Bootstrap) UCL		12.6
1095				95% Gamma Approximate UCL (Use when n >= 40)		20.84						
1096				95% Adjusted Gamma UCL (Use when n < 40)		21.91						
1097	Note: DL/2 is not a recommended method.											
1098												
1099	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1100	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1101						For additional insight, the user may want to consult a statistician.						
1102												
1103												

	A	B	C	D	E	F	G	H	I	J	K	L
1104	Chromium^_T											
1105												
1106					General Statistics							
1107					Number of Valid Observations	29				Number of Distinct Observations		24
1108												
1109				Raw Statistics						Log-transformed Statistics		
1110					Minimum	17				Minimum of Log Data		2.833
1111					Maximum	220				Maximum of Log Data		5.394
1112					Mean	74.24				Mean of log Data		4.173
1113					Geometric Mean	64.89				SD of log Data		0.531
1114					Median	63						
1115					SD	42.39						
1116					Std. Error of Mean	7.872						
1117					Coefficient of Variation	0.571						
1118					Skewness	1.867						
1119												
1120					Relevant UCL Statistics							
1121				Normal Distribution Test						Lognormal Distribution Test		
1122					Shapiro Wilk Test Statistic	0.833				Shapiro Wilk Test Statistic		0.958
1123					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1124				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
1125												
1126				Assuming Normal Distribution						Assuming Lognormal Distribution		
1127					95% Student's-t UCL	87.63				95% H-UCL		91.07
1128				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL		107.8
1129					95% Adjusted-CLT UCL (Chen-1995)	90.1				97.5% Chebyshev (MVUE) UCL		122.3
1130					95% Modified-t UCL (Johnson-1978)	88.09				99% Chebyshev (MVUE) UCL		150.8
1131												
1132				Gamma Distribution Test						Data Distribution		
1133					k star (bias corrected)	3.495				Data appear Gamma Distributed at 5% Significance Level		
1134					Theta Star	21.24						
1135					MLE of Mean	74.24						
1136					MLE of Standard Deviation	39.71						
1137					nu star	202.7						
1138					Approximate Chi Square Value (.05)	170.8				Nonparametric Statistics		
1139					Adjusted Level of Significance	0.0407				95% CLT UCL		87.19
1140					Adjusted Chi Square Value	169				95% Jackknife UCL		87.63
1141										95% Standard Bootstrap UCL		86.71
1142					Anderson-Darling Test Statistic	0.624				95% Bootstrap-t UCL		93.69
1143					Anderson-Darling 5% Critical Value	0.751				95% Hall's Bootstrap UCL		95.99
1144					Kolmogorov-Smirnov Test Statistic	0.122				95% Percentile Bootstrap UCL		87.59
1145					Kolmogorov-Smirnov 5% Critical Value	0.163				95% BCA Bootstrap UCL		89
1146				Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL		108.6
1147										97.5% Chebyshev(Mean, Sd) UCL		123.4
1148				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL		152.6
1149					95% Approximate Gamma UCL (Use when n >= 40)	88.13						
1150					95% Adjusted Gamma UCL (Use when n < 40)	89.04						
1151												
1152				Potential UCL to Use						Use 95% Approximate Gamma UCL		88.13
1153												
1154	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1155	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1156	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1157												
1158												

	A	B	C	D	E	F	G	H	I	J	K	L
1159	Cobalt_T											
1160												
1161					General Statistics							
1162					Number of Valid Observations	29				Number of Distinct Observations		19
1163												
1164				Raw Statistics						Log-transformed Statistics		
1165					Minimum	5.1				Minimum of Log Data		1.629
1166					Maximum	21				Maximum of Log Data		3.045
1167					Mean	10.59				Mean of log Data		2.297
1168					Geometric Mean	9.941				SD of log Data		0.372
1169					Median	11						
1170					SD	3.675						
1171					Std. Error of Mean	0.682						
1172					Coefficient of Variation	0.347						
1173					Skewness	0.468						
1174												
1175					Relevant UCL Statistics							
1176				Normal Distribution Test						Lognormal Distribution Test		
1177					Shapiro Wilk Test Statistic	0.939				Shapiro Wilk Test Statistic		0.915
1178					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1179				Data appear Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level		
1180												
1181				Assuming Normal Distribution						Assuming Lognormal Distribution		
1182					95% Student's-t UCL	11.75					95% H-UCL	12.14
1183				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL		13.91
1184					95% Adjusted-CLT UCL (Chen-1995)	11.77				97.5% Chebyshev (MVUE) UCL		15.33
1185					95% Modified-t UCL (Johnson-1978)	11.76				99% Chebyshev (MVUE) UCL		18.12
1186												
1187				Gamma Distribution Test						Data Distribution		
1188					k star (bias corrected)	7.302				Data appear Normal at 5% Significance Level		
1189					Theta Star	1.45						
1190					MLE of Mean	10.59						
1191					MLE of Standard Deviation	3.918						
1192					nu star	423.5						
1193					Approximate Chi Square Value (.05)	376.8				Nonparametric Statistics		
1194					Adjusted Level of Significance	0.0407					95% CLT UCL	11.71
1195					Adjusted Chi Square Value	374.2					95% Jackknife UCL	11.75
1196											95% Standard Bootstrap UCL	11.72
1197					Anderson-Darling Test Statistic	0.799					95% Bootstrap-t UCL	11.81
1198					Anderson-Darling 5% Critical Value	0.746					95% Hall's Bootstrap UCL	12.01
1199					Kolmogorov-Smirnov Test Statistic	0.141					95% Percentile Bootstrap UCL	11.79
1200					Kolmogorov-Smirnov 5% Critical Value	0.163					95% BCA Bootstrap UCL	11.76
1201	Data follow Appr. Gamma Distribution at 5% Significance Level										95% Chebyshev(Mean, Sd) UCL	13.56
1202											97.5% Chebyshev(Mean, Sd) UCL	14.85
1203				Assuming Gamma Distribution							99% Chebyshev(Mean, Sd) UCL	17.38
1204					95% Approximate Gamma UCL (Use when n >= 40)	11.9						
1205					95% Adjusted Gamma UCL (Use when n < 40)	11.98						
1206												
1207				Potential UCL to Use							Use 95% Student's-t UCL	11.75
1208												
1209	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1210	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1211	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1212												
1213												

	A	B	C	D	E	F	G	H	I	J	K	L
1214	Copper_T											
1215												
1216					General Statistics							
1217					Number of Valid Observations	29				Number of Distinct Observations		26
1218												
1219					Raw Statistics					Log-transformed Statistics		
1220					Minimum	22				Minimum of Log Data		3.091
1221					Maximum	3200				Maximum of Log Data		8.071
1222					Mean	410.3				Mean of log Data		5.21
1223					Geometric Mean	183				SD of log Data		1.209
1224					Median	140						
1225					SD	686.6						
1226					Std. Error of Mean	127.5						
1227					Coefficient of Variation	1.673						
1228					Skewness	3.026						
1229												
1230					Relevant UCL Statistics							
1231					Normal Distribution Test					Lognormal Distribution Test		
1232					Shapiro Wilk Test Statistic	0.568				Shapiro Wilk Test Statistic		0.961
1233					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1234					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
1235												
1236					Assuming Normal Distribution					Assuming Lognormal Distribution		
1237					95% Student's-t UCL	627.2				95% H-UCL		710
1238					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		791.1
1239					95% Adjusted-CLT UCL (Chen-1995)	696.6				97.5% Chebyshev (MVUE) UCL		975.6
1240					95% Modified-t UCL (Johnson-1978)	639.2				99% Chebyshev (MVUE) UCL		1338
1241												
1242					Gamma Distribution Test					Data Distribution		
1243					k star (bias corrected)	0.689				Data appear Lognormal at 5% Significance Level		
1244					Theta Star	595.8						
1245					MLE of Mean	410.3						
1246					MLE of Standard Deviation	494.5						
1247					nu star	39.94						
1248					Approximate Chi Square Value (.05)	26.46				Nonparametric Statistics		
1249					Adjusted Level of Significance	0.0407				95% CLT UCL		620.1
1250					Adjusted Chi Square Value	25.81				95% Jackknife UCL		627.2
1251										95% Standard Bootstrap UCL		613.6
1252					Anderson-Darling Test Statistic	1.566				95% Bootstrap-t UCL		828.9
1253					Anderson-Darling 5% Critical Value	0.785				95% Hall's Bootstrap UCL		713.4
1254					Kolmogorov-Smirnov Test Statistic	0.179				95% Percentile Bootstrap UCL		634.8
1255					Kolmogorov-Smirnov 5% Critical Value	0.169				95% BCA Bootstrap UCL		696.2
1256					Data not Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		966.1
1257										97.5% Chebyshev(Mean, Sd) UCL		1207
1258					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		1679
1259					95% Approximate Gamma UCL (Use when n >= 40)	619.4						
1260					95% Adjusted Gamma UCL (Use when n < 40)	635.1						
1261												
1262					Potential UCL to Use					Use 95% H-UCL		710
1263												
1264					ProUCL computes and outputs H-statistic based UCLs for historical reasons only.							
1265					H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.							
1266					It is therefore recommended to avoid the use of H-statistic based 95% UCLs.							
1267	se of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
1268												
1269	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1270	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1271	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1272												
1273												

	A	B	C	D	E	F	G	H	I	J	K	L
1274	Iron_T											
1275												
1276					General Statistics							
1277					Number of Valid Observations	29				Number of Distinct Observations		25
1278												
1279					Raw Statistics					Log-transformed Statistics		
1280					Minimum	12000				Minimum of Log Data		9.393
1281					Maximum	110000				Maximum of Log Data		11.61
1282					Mean	37431				Mean of log Data		10.38
1283					Geometric Mean	32173				SD of log Data		0.555
1284					Median	31000						
1285					SD	22209						
1286					Std. Error of Mean	4124						
1287					Coefficient of Variation	0.593						
1288					Skewness	1.462						
1289												
1290					Relevant UCL Statistics							
1291					Normal Distribution Test					Lognormal Distribution Test		
1292					Shapiro Wilk Test Statistic	0.874				Shapiro Wilk Test Statistic		0.978
1293					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1294					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
1295												
1296					Assuming Normal Distribution					Assuming Lognormal Distribution		
1297					95% Student's-t UCL	44447				95% H-UCL		46265
1298					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		54962
1299					95% Adjusted-CLT UCL (Chen-1995)	45411				97.5% Chebyshev (MVUE) UCL		62601
1300					95% Modified-t UCL (Johnson-1978)	44633				99% Chebyshev (MVUE) UCL		77607
1301												
1302					Gamma Distribution Test					Data Distribution		
1303					k star (bias corrected)	3.126				Data appear Gamma Distributed at 5% Significance Level		
1304					Theta Star	11975						
1305					MLE of Mean	37431						
1306					MLE of Standard Deviation	21172						
1307					nu star	181.3						
1308					Approximate Chi Square Value (.05)	151.1				Nonparametric Statistics		
1309					Adjusted Level of Significance	0.0407				95% CLT UCL		44215
1310					Adjusted Chi Square Value	149.5				95% Jackknife UCL		44447
1311										95% Standard Bootstrap UCL		44040
1312					Anderson-Darling Test Statistic	0.359				95% Bootstrap-t UCL		45986
1313					Anderson-Darling 5% Critical Value	0.752				95% Hall's Bootstrap UCL		46446
1314					Kolmogorov-Smirnov Test Statistic	0.131				95% Percentile Bootstrap UCL		44034
1315					Kolmogorov-Smirnov 5% Critical Value	0.164				95% BCA Bootstrap UCL		45655
1316					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		55408
1317										97.5% Chebyshev(Mean, Sd) UCL		63186
1318					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		78466
1319					95% Approximate Gamma UCL (Use when n >= 40)	44896						
1320					95% Adjusted Gamma UCL (Use when n < 40)	45389						
1321												
1322					Potential UCL to Use					Use 95% Approximate Gamma UCL		44896
1323												
1324	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1325	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1326	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1327												
1328												

	A	B	C	D	E	F	G	H	I	J	K	L
1329	Lead_T											
1330												
1331					General Statistics							
1332					Number of Valid Observations	29				Number of Distinct Observations		28
1333												
1334				Raw Statistics						Log-transformed Statistics		
1335					Minimum	22				Minimum of Log Data		3.091
1336					Maximum	5000				Maximum of Log Data		8.517
1337					Mean	965.4				Mean of log Data		5.972
1338					Geometric Mean	392.1				SD of log Data		1.473
1339					Median	350						
1340					SD	1321						
1341					Std. Error of Mean	245.3						
1342					Coefficient of Variation	1.368						
1343					Skewness	1.941						
1344												
1345					Relevant UCL Statistics							
1346				Normal Distribution Test						Lognormal Distribution Test		
1347					Shapiro Wilk Test Statistic	0.71				Shapiro Wilk Test Statistic		0.974
1348					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1349				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
1350												
1351				Assuming Normal Distribution						Assuming Lognormal Distribution		
1352					95% Student's-t UCL	1383				95% H-UCL		2754
1353				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL		2692
1354					95% Adjusted-CLT UCL (Chen-1995)	1463				97.5% Chebyshev (MVUE) UCL		3389
1355					95% Modified-t UCL (Johnson-1978)	1397				99% Chebyshev (MVUE) UCL		4759
1356												
1357				Gamma Distribution Test						Data Distribution		
1358					k star (bias corrected)	0.628				Data appear Gamma Distributed at 5% Significance Level		
1359					Theta Star	1538						
1360					MLE of Mean	965.4						
1361					MLE of Standard Deviation	1219						
1362					nu star	36.4						
1363					Approximate Chi Square Value (.05)	23.59				Nonparametric Statistics		
1364					Adjusted Level of Significance	0.0407				95% CLT UCL		1369
1365					Adjusted Chi Square Value	22.97				95% Jackknife UCL		1383
1366										95% Standard Bootstrap UCL		1362
1367					Anderson-Darling Test Statistic	0.57				95% Bootstrap-t UCL		1602
1368					Anderson-Darling 5% Critical Value	0.792				95% Hall's Bootstrap UCL		1498
1369					Kolmogorov-Smirnov Test Statistic	0.128				95% Percentile Bootstrap UCL		1392
1370					Kolmogorov-Smirnov 5% Critical Value	0.17				95% BCA Bootstrap UCL		1482
1371				Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL		2035
1372										97.5% Chebyshev(Mean, Sd) UCL		2497
1373				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL		3406
1374					95% Approximate Gamma UCL (Use when n >= 40)	1490						
1375					95% Adjusted Gamma UCL (Use when n < 40)	1530						
1376												
1377				Potential UCL to Use						Use 95% Approximate Gamma UCL		1490
1378												
1379	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1380	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1381	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1382												
1383												

	A	B	C	D	E	F	G	H	I	J	K	L
1384	Manganese_T											
1385												
1386					General Statistics							
1387					Number of Valid Observations	29				Number of Distinct Observations		22
1388												
1389					Raw Statistics					Log-transformed Statistics		
1390					Minimum	130				Minimum of Log Data		4.868
1391					Maximum	1100				Maximum of Log Data		7.003
1392					Mean	468.6				Mean of log Data		6.015
1393					Geometric Mean	409.4				SD of log Data		0.562
1394					Median	430						
1395					SD	231.7						
1396					Std. Error of Mean	43.02						
1397					Coefficient of Variation	0.494						
1398					Skewness	0.681						
1399												
1400					Relevant UCL Statistics							
1401					Normal Distribution Test					Lognormal Distribution Test		
1402					Shapiro Wilk Test Statistic	0.952				Shapiro Wilk Test Statistic		0.928
1403					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1404					Data appear Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
1405												
1406					Assuming Normal Distribution					Assuming Lognormal Distribution		
1407					95% Student's-t UCL	541.8				95% H-UCL		592.9
1408					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		705
1409					95% Adjusted-CLT UCL (Chen-1995)	545.2				97.5% Chebyshev (MVUE) UCL		803.9
1410					95% Modified-t UCL (Johnson-1978)	542.7				99% Chebyshev (MVUE) UCL		998.2
1411												
1412					Gamma Distribution Test					Data Distribution		
1413					k star (bias corrected)	3.481				Data appear Normal at 5% Significance Level		
1414					Theta Star	134.6						
1415					MLE of Mean	468.6						
1416					MLE of Standard Deviation	251.2						
1417					nu star	201.9						
1418					Approximate Chi Square Value (.05)	170				Nonparametric Statistics		
1419					Adjusted Level of Significance	0.0407				95% CLT UCL		539.4
1420					Adjusted Chi Square Value	168.3				95% Jackknife UCL		541.8
1421										95% Standard Bootstrap UCL		539.8
1422					Anderson-Darling Test Statistic	0.457				95% Bootstrap-t UCL		549.8
1423					Anderson-Darling 5% Critical Value	0.751				95% Hall's Bootstrap UCL		548.2
1424					Kolmogorov-Smirnov Test Statistic	0.11				95% Percentile Bootstrap UCL		537.9
1425					Kolmogorov-Smirnov 5% Critical Value	0.163				95% BCA Bootstrap UCL		541
1426					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		656.1
1427										97.5% Chebyshev(Mean, Sd) UCL		737.3
1428					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		896.6
1429					95% Approximate Gamma UCL (Use when n >= 40)	556.5						
1430					95% Adjusted Gamma UCL (Use when n < 40)	562.3						
1431												
1432					Potential UCL to Use					Use 95% Student's-t UCL		541.8
1433												
1434	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1435	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1436	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1437												
1438												

	A	B	C	D	E	F	G	H	I	J	K	L
1439	Mercury_T											
1440												
1441						General Statistics						
1442					Number of Valid Data	29					Number of Detected Data	27
1443					Number of Distinct Detected Data	26					Number of Non-Detect Data	2
1444											Percent Non-Detects	6.90%
1445												
1446					Raw Statistics						Log-transformed Statistics	
1447					Minimum Detected	0.13					Minimum Detected	-2.04
1448					Maximum Detected	30					Maximum Detected	3.401
1449					Mean of Detected	3.05					Mean of Detected	0.068
1450					SD of Detected	5.9					SD of Detected	1.429
1451					Minimum Non-Detect	0.028					Minimum Non-Detect	-3.576
1452					Maximum Non-Detect	0.028					Maximum Non-Detect	-3.576
1453												
1454												
1455						UCL Statistics						
1456				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
1457					Shapiro Wilk Test Statistic	0.506					Shapiro Wilk Test Statistic	0.934
1458					5% Shapiro Wilk Critical Value	0.923					5% Shapiro Wilk Critical Value	0.923
1459				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
1460												
1461				Assuming Normal Distribution						Assuming Lognormal Distribution		
1462					DL/2 Substitution Method						DL/2 Substitution Method	
1463					Mean	2.84					Mean	-0.231
1464					SD	5.739					SD	1.774
1465					95% DL/2 (t) UCL	4.653					95% H-Stat (DL/2) UCL	12.61
1466												
1467					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
1468					Mean	2.572					Mean in Log Scale	-0.165
1469					SD	5.913					SD in Log Scale	1.631
1470					95% MLE (t) UCL	4.44					Mean in Original Scale	2.842
1471					95% MLE (Tiku) UCL	4.285					SD in Original Scale	5.738
1472											95% t UCL	4.654
1473											95% Percentile Bootstrap UCL	4.811
1474											95% BCA Bootstrap UCL	5.918
1475											95% H UCL	8.98
1476												
1477				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
1478					k star (bias corrected)	0.55				Data appear Lognormal at 5% Significance Level		
1479					Theta Star	5.541						
1480					nu star	29.72						
1481												
1482					A-D Test Statistic	1.339				Nonparametric Statistics		
1483					5% A-D Critical Value	0.799					Kaplan-Meier (KM) Method	
1484					K-S Test Statistic	0.799					Mean	2.848
1485					5% K-S Critical Value	0.177					SD	5.635
1486				Data not Gamma Distributed at 5% Significance Level							SE of Mean	1.066
1487											95% KM (t) UCL	4.662
1488				Assuming Gamma Distribution							95% KM (z) UCL	4.602
1489					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	4.656
1490					Minimum	1E-06					95% KM (bootstrap t) UCL	7.094
1491					Maximum	30					95% KM (BCA) UCL	5.092
1492					Mean	2.839					95% KM (Percentile Bootstrap) UCL	4.822
1493					Median	0.75					95% KM (Chebyshev) UCL	7.496
1494					SD	5.739					97.5% KM (Chebyshev) UCL	9.507
1495					k star	0.335					99% KM (Chebyshev) UCL	13.46
1496					Theta star	8.472						
1497					Nu star	19.44				Potential UCLs to Use		
1498					AppChi2	10.44					97.5% KM (Chebyshev) UCL	9.507
1499					95% Gamma Approximate UCL (Use when n >= 40)	5.288						
1500					95% Adjusted Gamma UCL (Use when n < 40)	5.495						
1501	Note: DL/2 is not a recommended method.											
1502												
1503	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1504	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1505					For additional insight, the user may want to consult a statistician.							
1506												
1507												

	A	B	C	D	E	F	G	H	I	J	K	L
1508	Vanadium_T											
1509												
1510					General Statistics							
1511					Number of Valid Observations	29				Number of Distinct Observations		24
1512												
1513					Raw Statistics					Log-transformed Statistics		
1514					Minimum	10				Minimum of Log Data		2.303
1515					Maximum	89				Maximum of Log Data		4.489
1516					Mean	42				Mean of log Data		3.629
1517					Geometric Mean	37.69				SD of log Data		0.513
1518					Median	45						
1519					SD	17.69						
1520					Std. Error of Mean	3.285						
1521					Coefficient of Variation	0.421						
1522					Skewness	0.191						
1523												
1524					Relevant UCL Statistics							
1525					Normal Distribution Test					Lognormal Distribution Test		
1526					Shapiro Wilk Test Statistic	0.964				Shapiro Wilk Test Statistic		0.908
1527					Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value		0.926
1528					Data appear Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level		
1529												
1530					Assuming Normal Distribution					Assuming Lognormal Distribution		
1531					95% Student's-t UCL	47.59				95% H-UCL		51.99
1532					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		61.37
1533					95% Adjusted-CLT UCL (Chen-1995)	47.53				97.5% Chebyshev (MVUE) UCL		69.41
1534					95% Modified-t UCL (Johnson-1978)	47.61				99% Chebyshev (MVUE) UCL		85.21
1535												
1536					Gamma Distribution Test					Data Distribution		
1537					k star (bias corrected)	4.302				Data appear Normal at 5% Significance Level		
1538					Theta Star	9.762						
1539					MLE of Mean	42						
1540					MLE of Standard Deviation	20.25						
1541					nu star	249.5						
1542					Approximate Chi Square Value (.05)	214				Nonparametric Statistics		
1543					Adjusted Level of Significance	0.0407				95% CLT UCL		47.4
1544					Adjusted Chi Square Value	212				95% Jackknife UCL		47.59
1545										95% Standard Bootstrap UCL		47.24
1546					Anderson-Darling Test Statistic	0.796				95% Bootstrap-t UCL		47.65
1547					Anderson-Darling 5% Critical Value	0.748				95% Hall's Bootstrap UCL		47.28
1548					Kolmogorov-Smirnov Test Statistic	0.152				95% Percentile Bootstrap UCL		47.47
1549					Kolmogorov-Smirnov 5% Critical Value	0.163				95% BCA Bootstrap UCL		47.5
1550					Data follow Appr. Gamma Distribution at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		56.32
1551										97.5% Chebyshev(Mean, Sd) UCL		62.51
1552					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		74.68
1553					95% Approximate Gamma UCL (Use when n >= 40)	48.98						
1554					95% Adjusted Gamma UCL (Use when n < 40)	49.44						
1555												
1556					Potential UCL to Use					Use 95% Student's-t UCL		47.59
1557												
1558	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1559	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1560	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1561												
1562												

	A	B	C	D	E	F	G	H	I	J	K	L
1563	Cyanide_T											
1564												
1565					General Statistics							
1566					Number of Valid Data	29			Number of Detected Data			21
1567					Number of Distinct Detected Data	20			Number of Non-Detect Data			8
1568									Percent Non-Detects			27.59%
1569												
1570				Raw Statistics					Log-transformed Statistics			
1571					Minimum Detected	0.68			Minimum Detected			-0.386
1572					Maximum Detected	17			Maximum Detected			2.833
1573					Mean of Detected	4.783			Mean of Detected			1.218
1574					SD of Detected	4.012			SD of Detected			0.891
1575					Minimum Non-Detect	0.33			Minimum Non-Detect			-1.109
1576					Maximum Non-Detect	0.67			Maximum Non-Detect			-0.4
1577												
1578	Note: Data have multiple DLs - Use of KM Method is recommen								Number treated as Non-Detect			8
1579	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			21
1580	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			27.59%
1581												
1582					UCL Statistics							
1583				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
1584					Shapiro Wilk Test Statistic	0.853			Shapiro Wilk Test Statistic			0.965
1585					5% Shapiro Wilk Critical Value	0.908			5% Shapiro Wilk Critical Value			0.908
1586				Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level			
1587												
1588				Assuming Normal Distribution					Assuming Lognormal Distribution			
1589					DL/2 Substitution Method				DL/2 Substitution Method			
1590					Mean	3.535			Mean			0.501
1591					SD	3.967			SD			1.408
1592					95% DL/2 (t) UCL	4.788			95% H-Stat (DL/2) UCL			9.929
1593												
1594				Maximum Likelihood Estimate(MLE) Method					Log ROS Method			
1595					Mean	2.763			Mean in Log Scale			0.657
1596					SD	4.862			SD in Log Scale			1.196
1597					95% MLE (t) UCL	4.299			Mean in Original Scale			3.587
1598					95% MLE (Tiku) UCL	4.36			SD in Original Scale			3.923
1599									95% t UCL			4.826
1600									95% Percentile Bootstrap UCL			4.835
1601									95% BCA Bootstrap UCL			5.041
1602									95% H UCL			7.288
1603												
1604				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
1605					k star (bias corrected)	1.392			Data appear Gamma Distributed at 5% Significance Level			
1606					Theta Star	3.435						
1607					nu star	58.48						
1608												
1609					A-D Test Statistic	0.377			Nonparametric Statistics			
1610					5% A-D Critical Value	0.757			Kaplan-Meier (KM) Method			
1611					K-S Test Statistic	0.757			Mean			3.651
1612					5% K-S Critical Value	0.193			SD			3.804
1613				Data appear Gamma Distributed at 5% Significance Level					SE of Mean			0.724
1614									95% KM (t) UCL			4.883
1615				Assuming Gamma Distribution					95% KM (z) UCL			4.842
1616				Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL			4.828
1617					Minimum	1E-06			95% KM (bootstrap t) UCL			5.182
1618					Maximum	17			95% KM (BCA) UCL			4.965
1619					Mean	3.464			95% KM (Percentile Bootstrap) UCL			4.911
1620					Median	1.9			95% KM (Chebyshev) UCL			6.806
1621					SD	4.029			97.5% KM (Chebyshev) UCL			8.171
1622					k star	0.184			99% KM (Chebyshev) UCL			10.85
1623					Theta star	18.84						
1624					Nu star	10.66			Potential UCLs to Use			
1625					AppChi2	4.36			95% KM (Percentile Bootstrap) UCL			4.911
1626				95% Gamma Approximate UCL (Use when n >= 40)		8.471						
1627				95% Adjusted Gamma UCL (Use when n < 40)		8.962						
1628	Note: DL/2 is not a recommended method.											
1629												
1630	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1631	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1632					For additional insight, the user may want to consult a statistician.							
1633												
1634												

	A	B	C	D	E	F	G	H	I	J	K	L
1635	Arsenic_T_0-2											
1636												
1637						General Statistics						
1638					Number of Valid Data	21				Number of Detected Data		15
1639					Number of Distinct Detected Data	14				Number of Non-Detect Data		6
1640										Percent Non-Detects		28.57%
1641												
1642					Raw Statistics					Log-transformed Statistics		
1643					Minimum Detected	2.825				Minimum Detected		1.039
1644					Maximum Detected	21				Maximum Detected		3.045
1645					Mean of Detected	11.22				Mean of Detected		2.268
1646					SD of Detected	5.941				SD of Detected		0.593
1647					Minimum Non-Detect	2.8				Minimum Non-Detect		1.03
1648					Maximum Non-Detect	3.4				Maximum Non-Detect		1.224
1649												
1650	Note: Data have multiple DLs - Use of KM Method is recommen									Number treated as Non-Detect		7
1651	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		14
1652	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		33.33%
1653												
1654						UCL Statistics						
1655				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
1656					Shapiro Wilk Test Statistic	0.92				Shapiro Wilk Test Statistic		0.947
1657					5% Shapiro Wilk Critical Value	0.881				5% Shapiro Wilk Critical Value		0.881
1658				Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
1659												
1660				Assuming Normal Distribution						Assuming Lognormal Distribution		
1661					DL/2 Substitution Method					DL/2 Substitution Method		
1662					Mean	8.444				Mean		1.738
1663					SD	6.698				SD		0.992
1664					95% DL/2 (t) UCL	10.97				95% H-Stat (DL/2) UCL		16.39
1665												
1666					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
1667					Mean	7.208				Mean in Log Scale		1.888
1668					SD	8.287				SD in Log Scale		0.798
1669					95% MLE (t) UCL	10.33				Mean in Original Scale		8.753
1670					95% MLE (Tiku) UCL	10.6				SD in Original Scale		6.379
1671										95% t UCL		11.15
1672										95% Percentile Bootstrap UCL		11
1673										95% BCA Bootstrap UCL		11.21
1674										95% H UCL		13.69
1675												
1676				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
1677					k star (bias corrected)	2.845				Data appear Normal at 5% Significance Level		
1678					Theta Star	3.943						
1679					nu star	85.34						
1680												
1681					A-D Test Statistic	0.331				Nonparametric Statistics		
1682					5% A-D Critical Value	0.742				Kaplan-Meier (KM) Method		
1683					K-S Test Statistic	0.742				Mean		8.818
1684					5% K-S Critical Value	0.223				SD		6.156
1685				Data appear Gamma Distributed at 5% Significance Level						SE of Mean		1.391
1686										95% KM (t) UCL		11.22
1687				Assuming Gamma Distribution						95% KM (z) UCL		11.11
1688					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		11.02
1689					Minimum	1E-06				95% KM (bootstrap t) UCL		11.44
1690					Maximum	21				95% KM (BCA) UCL		11.67
1691					Mean	8.011				95% KM (Percentile Bootstrap) UCL		11.59
1692					Median	7.3				95% KM (Chebyshev) UCL		14.88
1693					SD	7.188				97.5% KM (Chebyshev) UCL		17.5
1694					k star	0.178				99% KM (Chebyshev) UCL		22.65
1695					Theta star	44.92						
1696					Nu star	7.489				Potential UCLs to Use		
1697					AppChi2	2.443				95% KM (t) UCL		11.22
1698					95% Gamma Approximate UCL (Use when n >= 40)	24.56				95% KM (Percentile Bootstrap) UCL		11.59
1699					95% Adjusted Gamma UCL (Use when n < 40)	26.94						
1700	Note: DL/2 is not a recommended method.											
1701												
1702	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1703	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
1704					For additional insight, the user may want to consult a statistician.							
1705												
1706												

	A	B	C	D	E	F	G	H	I	J	K	L
1707	Lead_T_0-2											
1708												
1709					General Statistics							
1710					Number of Valid Observations	21				Number of Distinct Observations		20
1711												
1712					Raw Statistics					Log-transformed Statistics		
1713					Minimum	22				Minimum of Log Data		3.091
1714					Maximum	4300				Maximum of Log Data		8.366
1715					Mean	765				Mean of log Data		5.792
1716					Geometric Mean	327.6				SD of log Data		1.378
1717					Median	280						
1718					SD	1086						
1719					Std. Error of Mean	237.1						
1720					Coefficient of Variation	1.42						
1721					Skewness	2.248						
1722												
1723					Relevant UCL Statistics							
1724					Normal Distribution Test					Lognormal Distribution Test		
1725					Shapiro Wilk Test Statistic	0.687				Shapiro Wilk Test Statistic		0.98
1726					Shapiro Wilk Critical Value	0.908				Shapiro Wilk Critical Value		0.908
1727					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
1728												
1729					Assuming Normal Distribution					Assuming Lognormal Distribution		
1730					95% Student's-t UCL	1174				95% H-UCL		2214
1731					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL		2000
1732					95% Adjusted-CLT UCL (Chen-1995)	1279				97.5% Chebyshev (MVUE) UCL		2527
1733					95% Modified-t UCL (Johnson-1978)	1193				99% Chebyshev (MVUE) UCL		3562
1734												
1735					Gamma Distribution Test					Data Distribution		
1736					k star (bias corrected)	0.641				Data appear Gamma Distributed at 5% Significance Level		
1737					Theta Star	1193						
1738					MLE of Mean	765						
1739					MLE of Standard Deviation	955.4						
1740					nu star	26.93						
1741					Approximate Chi Square Value (.05)	16.1				Nonparametric Statistics		
1742					Adjusted Level of Significance	0.0383				95% CLT UCL		1155
1743					Adjusted Chi Square Value	15.45				95% Jackknife UCL		1174
1744										95% Standard Bootstrap UCL		1148
1745					Anderson-Darling Test Statistic	0.646				95% Bootstrap-t UCL		1573
1746					Anderson-Darling 5% Critical Value	0.786				95% Hall's Bootstrap UCL		1542
1747					Kolmogorov-Smirnov Test Statistic	0.185				95% Percentile Bootstrap UCL		1183
1748					Kolmogorov-Smirnov 5% Critical Value	0.197				95% BCA Bootstrap UCL		1311
1749					Data appear Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL		1798
1750										97.5% Chebyshev(Mean, Sd) UCL		2246
1751					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL		3124
1752					95% Approximate Gamma UCL (Use when n >= 40)	1280						
1753					95% Adjusted Gamma UCL (Use when n < 40)	1333						
1754												
1755					Potential UCL to Use					Use 95% Approximate Gamma UCL		1280
1756												
1757	ote: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
1758	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
1759	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
1760												

Appendix C.3

Lead Model Calculations

Table C.3.1 Time Weigthed Average Concentrations

Current/Future Trespasser

Soil

	Average Concentration (mg/kg)	Exposure Frequency (days/week)	Time-weighted conc. (mg/kg)
Exposure Point		Current	Current
Hydro Dam Property (0-2 feet)	15	2	27
Transmission Line Property (0-2 feet)	765	2	241
Hydro Dam Property (0-15 feet)	161	2	**69**
Transmission Line Property (0-15 feet)	965	2	**299**

Current/Future Non-Intrusive Worker

Soil

	Average Concentration (mg/kg)	Exposure Frequency (days/week)	Time-weighted conc. (mg/kg)
Exposure Point			
Hydro Dam Property (0-2 feet)	15	1	30
Transmission Line Property (0-2 feet)	765	1	137
Hydro Dam Property (0-15 feet)	161	1	**50**
Transmission Line Property (0-15 feet)	965	1	**165**

Future Intrusive Worker

Soil

	Average Concentration (mg/kg)	Exposure Frequency (days/week)	Time-weighted conc. (mg/kg)
Exposure Point			
Transmission Line Property (0-2 feet)	765	2	241
Transmission Line Property (0-15 feet)	965	2	**299**

Future Construction Worker

Soil

	Average Concentration (mg/kg)
Exposure Point	
Hydro Dam Property (0-2 feet)	15
Transmission Line Property (0-2 feet)	765
Hydro Dam Property (0-15 feet)	**161**
Transmission Line Property (0-15 feet)	**965**

Notes:
Time-weighted over one week using MEDEP background value of 32 mg/kg.
Time weighted concentration = (((Average Conc. * Exposure Freq. in days/week) + (Bkgd. Conc. * (7-Exposure Freq. in days/week))/7)

Table C.3.2 - Calculations of Blood Lead Concentrations (PbBs) - Future Intrusive Worker - Transmission Line Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	299	299
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.330	0.330
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	24	24
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.3**	**1.8**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	3.1	5.5
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.014%**	**0.7%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.3 - Calculations of Blood Lead Concentrations (PbBs) - Future Non-Intrusive Worker - Hydro Dam Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	50	50
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	24	24
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.0**	**1.5**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	2.4	4.6
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.002%**	**0.4%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.4 - Calculations of Blood Lead Concentrations (PbBs) - Future Non-Intrusive Worker - Transmission Line Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	165	165
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	24	24
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.1**	**1.6**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	2.5	4.7
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.003%**	**0.4%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.5 - Calculations of Blood Lead Concentrations (PbBs) - Older Child Future Trespasser - Hydro Dam Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	69	69
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	52	52
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.0**	**1.5**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	2.5	4.7
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.003%**	**0.4%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.6 - Calculations of Blood Lead Concentrations (PbBs) - Older Child Future Trespasser - Transmission Line Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	299	299
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	52	52
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.2**	**1.7**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	2.9	5.2
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.008%**	**0.6%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.7 - Calculations of Blood Lead Concentrations (PbBs) - Future Construction Worker - Hydro Dam Property - Soil (0-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	161	161
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.330	0.330
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	125	125
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**1.9**	**2.4**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	4.4	7.2
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.123%**	**1.9%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table C.3.8 - Calculations of Blood Lead Concentrations (PbBs) - Future Construction Worker - Transmission Line Property - Soil (2-15 feet)

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
PbS	Soil lead concentration	ug/g or ppm	965	965
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.330	0.330
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	125	125
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**6.2**	**6.7**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	14.8	20.5
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**16.280%**	**25.0%**

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Appendix C.4

RAGS Part D Risk Calculation Spreadsheets

TABLE C.4-1
SELECTION OF EXPOSURE PATHWAYS
Little Falls Site
Hydro & Transmission Line Property
Windham and Gorham, Maine

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current	Soil	Surface Soil (0 - 2 feet)	Hydro Property	Indoor Worker	Adult	Ingestion	Quant	Indoor workers are currently present and may occassionally contact surface soil.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	Indoor workers are currently present and may occassionally contact surface soil.
			Hydro Property, Northern Line Property and South Bank Area	Trespasser	Older Child	Ingestion	Quant	All exposure points are accessible to trespassers.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	All exposure points are accessible to trespassers.
			Hydro Property, Northern Transmission Line Property and South Bank Area	Non-Intrusive	Adult	Ingestion	Quant	Workers may perform inspections at all three exposure points.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	Workers may perform inspections at all three exposure points.
Future	Soil	Surface/Subsurface Soil (0 - 15 feet)	Hydro Property	Indoor Worker	Adult	Ingestion	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
			Hydro Property, Northern Transmission Line Property and South Bank Area	Trespasser	Older Child	Ingestion	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
			Hydro Property, Northern Transmission Line Property and South Bank Area	Non-Intrusive Worker	Adult	Ingestion	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
						Inhalation	Qual	Inhalation expected to be negligable
						Dermal	Quant	Land use is expected to remain unchanged, though mixing of surface and subsurface soil may occur.
			Northern Transmission Line Property	Intrusive Worker	Adult	Ingestion	Quant	Intrusive work associated with pole failures occurs at this exposure points.
						Inhalation	Qual	Due to the intrusive work being performed, dust generation is likely to occur.
						Dermal	Quant	Intrusive work associated with pole failures occurs at this exposure points.
			Hydro Property, Northern Transmission Line Property and South Bank Area	Construction Worker	Adult	Ingestion	Quant	Future activities may involve construction. Construction workers may come into contact with contaminated soil.
						Inhalation	Quant	Future activities may involve construction. Construction workers may come into contact with contaminated fugitive dusts.
						Dermal	Quant	Future activities may involve construction. Construction workers may come into contact with contaminated soil.

TABLE C.4-2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current /Future
Medium: Soil
Exposure Medium: Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Hydro Property		**EPH/PAHs**														
	91-57-6	2-Methylnaphthalene	2.70E-01	3.60E+00	mg/kg	H-GP-3	2/10	0.1 - 0.28	3.60E+00	N/A	23	N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	1.40E-01	7.00E+00	mg/kg	H-GP-3	4/10	0.1 - 0.11	7.00E+00	N/A	3.6	C	N/A	N/A	Y	ASL
	208-96-8	Acenaphthylene	1.60E-01	1.40E+00	mg/kg	H-TP-1	5/10	0.1 - 0.11	1.40E+00	N/A	340	N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	2.10E-01	7.40E+00	mg/kg	H-GP-3	3/10	0.1 - 0.28	7.40E+00	N/A	340	N	N/A	N/A	N	BSL
	86-73-7	Fluorene	1.30E-01	8.70E+00	mg/kg	H-GP-3	5/10	0.1 - 0.11	8.70E+00	N/A	230	N	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	1.10E-01	4.80E+01	mg/kg	H-GP-3	6/10	0.1 - 0.11	4.80E+01	N/A	170	N	N/A	N/A	N	BSL
	120-12-7	Anthracene	1.90E-01	1.10E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	1.10E+01	N/A	1700	N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	1.60E-01	4.10E+01	mg/kg	H-GP-3	6/10	0.1 - 0.11	4.10E+01	N/A	230	N	N/A	N/A	N	BSL
	129-00-0	Pyrene	1.60E+00	3.70E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	3.70E+01	N/A	170	N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)Anthracene	6.50E-01	1.30E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	1.30E+01	N/A	0.15	C	N/A	N/A	Y	ASL
	218-01-9	Chrysene	9.90E-01	1.70E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	1.70E+01	N/A	15	C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)Fluoranthene	1.30E+00	1.80E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	1.80E+01	N/A	0.15	C	N/A	N/A	Y	ASL
	207-08-9	Benzo(k)Fluoranthene	4.20E-01	6.50E+00	mg/kg	H-GP-3	5/10	0.1 - 0.11	6.50E+00	N/A	1.5	C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)Pyrene	8.80E-01	1.20E+01	mg/kg	H-GP-3	5/10	0.1 - 0.11	1.20E+01	N/A	0.015	C	N/A	N/A	Y	ASL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.20E-01	9.00E+00	mg/kg	H-GP-3	6/10	0.1 - 0.11	9.00E+00	N/A	0.15	C	N/A	N/A	Y	ASL
	53-70-3	Dibenz(a,h) anthracene	1.90E-01	2.60E+00	mg/kg	H-GP-3	5/10	0.1 - 0.11	2.60E+00	N/A	0.015	C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	6.30E-01	7.00E+00	mg/kg	H-GP-3	5/10	0.1 - 0.11	7.00E+00	N/A	170	N	N/A	N/A	N	BSL
	C19-C36	C19-C36 Aliphatic	2.30E+01	3.30E+02	mg/kg	H-GP-3	7/10	10 - 11	3.30E+02	N/A	24,000	N	N/A	N/A	N	BSL
	C11-C22	C11-C22 Aromatic	1.60E+01	6.20E+02	mg/kg	H-GP-3	8/10	10 - 10	6.20E+02	N/A	31	N	N/A	N/A	Y	ASL
		PCBs														
	1136-36-3	Total PCBs	1.75E-01	1.75E-01	mg/kg	H-TP-4	1/10	0.098 - 0.14	1.75E-01	N/A	0.11	N	N/A	N/A	Y	ASL
		Metals, total														
	7429-90-5	Aluminum	5.30E+03	1.70E+04	mg/kg	H-TP-1	10/10	--	1.70E+04	N/A	7700	N	N/A	N/A	Y	ASL
	7440-36-0	Antimony	5.70E+00	5.70E+00	mg/kg	H-TP-1	1/10	2.4 - 3.3	5.70E+00	N/A	3.1	N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	3.60E+00	1.80E+01	mg/kg	H-TP-1	6/10	2.45 -2.8	1.80E+01	N/A	0.39	C	N/A	N/A	Y	ASL
	7440-39-3	Barium	2.30E+01	1.80E+02	mg/kg	H-TP-1	10/10	--	1.80E+02	N/A	1500	N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	2.80E-01	7.00E-01	mg/kg	H-TP-1	6/10	0.24 - 0.28	7.00E-01	N/A	7	N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1.40E+03	5.40E+03	mg/kg	H-GP-3	10/10	--	5.40E+03	N/A	N/A		N/A	N/A	N	NUT
	18540-29-9	Chromium (VI)	9.70E+00	8.50E+01	mg/kg	H-TP-4	10/10	--	8.50E+01	N/A	0.29	C	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	4.30E+00	1.30E+01	mg/kg	H-TP-1	10/10	--	1.30E+01	N/A	2.3	N	N/A	N/A	Y	ASL
	7440-50-8	Copper	7.30E+00	1.90E+02	mg/kg	H-TP-1	10/10	--	1.90E+02	N/A	310	N	N/A	N/A	N	BSL
	57-12-5	Cyanide	9.40E-01	1.10E+00	mg/kg	H-GP-1	2/10	0.31 - 0.5	1.10E+00	N/A	2.2	N	N/A	N/A	N	BSL
	7439-89-6	Iron	8.90E+03	6.00E+04	mg/kg	H-TP-4	10/10	--	6.00E+04	N/A	5500	N	N/A	N/A	Y	ASL
	7439-92-1	Lead	4.60E+00	7.50E+02	mg/kg	H-TP-1	10/10	--	7.50E+02	N/A	400	N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	2.00E+03	8.80E+03	mg/kg	H-GP-3	10/10	--	8.80E+03	N/A	N/A		N/A	N/A	N	NUT
	7439-96-5	Manganese	1.40E+02	5.90E+02	mg/kg	H-TP-1	10/10	--	5.90E+02	N/A	180	N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	7.20E-02	4.20E-01	mg/kg	H-GP-3	5/10	0.026 - 0.027	4.20E-01	N/A	2.3	N	N/A	N/A	N	BSL
	7440-02-0	Nickel	8.00E+00	4.30E+01	mg/kg	H-TP-4	10/10	--	4.30E+01	N/A	150	N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1.15E+03	7.90E+03	mg/kg	H-GP-3	10/10	--	7.90E+03	N/A	N/A		N/A	N/A	N	NUT
	7440-23-5	Sodium	1.10E+02	2.90E+02	mg/kg	H-TP-1	8/10	97 - 110	2.90E+02	N/A	N/A		N/A	N/A	N	NUT
	7440-62-2	Vanadium	1.40E+01	1.20E+02	mg/kg	H-TP-1	10/10	--	1.20E+02	N/A	39	N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	2.70E+01	2.70E+02	mg/kg	H-TP-1	10/10	--	2.70E+02	N/A	2300	N	N/A	N/A	N	BSL

TABLE C.4-2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current /Future
Medium: Soil
Exposure Medium: Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Northern Transmission Line Property		**EPH/PAHs**														
	91-57-6	2-Methylnaphthalene	1.30E-01	1.60E-01	mg/kg	T-GP-5	3/29	0.11 - 0.69	1.60E-01	N/A	23	N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	1.80E-01	2.40E-01	mg/kg	T-GP-2	3/29	0.11 - 0.69	2.40E-01	N/A	3.6	C	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	2.10E-01	2.10E-01	mg/kg	T-GP-2	1/29	0.11 - 0.69	2.10E-01	N/A	340	N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	1.10E-01	1.70E-01	mg/kg	T-GP-5	2/29	0.11 - 0.69	1.70E-01	N/A	340	N	N/A	N/A	N	BSL
	86-73-7	Fluorene	1.30E-01	2.30E-01	mg/kg	T-GP-5	4/29	0.11 - 0.69	2.30E-01	N/A	230	N	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	1.20E-01	6.70E+00	mg/kg	T-TP-1	21/29	0.11 - 0.69	6.70E+00	N/A	170	N	N/A	N/A	N	BSL
	120-12-7	Anthracene	1.65E-01	1.70E+00	mg/kg	T-TP-1	7/29	0.11 - 0.69	1.70E+00	N/A	1700	N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	1.40E-01	1.10E+01	mg/kg	T-TP-1	22/29	0.11 - 0.69	1.10E+01	N/A	230	N	N/A	N/A	N	BSL
	129-00-0	Pyrene	1.30E-01	1.00E+01	mg/kg	T-TP-1	21/29	0.11 - 0.69	1.00E+01	N/A	170	N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)Anthracene	1.90E-01	5.10E+00	mg/kg	T-TP-1	16/29	0.11 - 0.69	5.10E+00	N/A	0.15	C	N/A	N/A	Y	ASL
	218-01-9	Chrysene	1.40E-01	5.20E+00	mg/kg	T-TP-1	18/29	0.11 - 0.69	5.20E+00	N/A	15	C	N/A	N/A	N	BSL
	205-99-2	Benzo(b)Fluoranthene	2.90E-01	6.30E+00	mg/kg	T-TP-1	16/29	0.11 - 0.69	6.30E+00	N/A	0.15	C	N/A	N/A	Y	ASL
	207-08-9	Benzo(k)Fluoranthene	1.40E-01	2.30E+00	mg/kg	T-TP-1	11/29	0.11 - 0.69	2.30E+00	N/A	1.5	C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)Pyrene	3.10E-01	5.30E+00	mg/kg	T-TP-1	11/29	0.11 - 0.69	5.30E+00	N/A	0.015	C	N/A	N/A	Y	ASL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.30E-01	3.80E+00	mg/kg	T-TP-1	15/29	0.11 - 0.69	3.80E+00	N/A	0.15	C	N/A	N/A	Y	ASL
	53-70-3	Dibenz(a,h) anthracene	1.60E-01	1.00E+00	mg/kg	T-TP-1	5/29	0.11 - 0.69	1.00E+00	N/A	0.015	C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	1.20E-01	3.20E+00	mg/kg	T-TP-1	15/29	0.11 - 0.69	3.20E+00	N/A	170	N	N/A	N/A	N	BSL
	C9-C18	C9-C18 Aliphatic	1.40E+01	2.63E+01	mg/kg	T-TP-5	2/29	11 - 69	2.63E+01	N/A	78	N	N/A	N/A	N	BSL
	C19-C36	C19-C36 Aliphatic	1.50E+01	1.40E+03	mg/kg	T-GP-13	24/29	11 - 13	1.40E+03	N/A	24,000	N	N/A	N/A	N	BSL
	C11-C22	C11-C22 Aromatic	1.50E+01	5.20E+02	mg/kg	T-GP-13	27/29	11 - 11	5.20E+02	N/A	31	N	N/A	N/A	Y	ASL
		PCBs														
	1136-36-3	Total PCBs	1.10E-01	8.40E+00	mg/kg	T-GP-7	15/29	0.11 - 0.19	8.40E+00	N/A	0.11	N	N/A	N/A	Y	ASL
		Metals, total														
	7429-90-5	Aluminum	2.30E+03	2.80E+04	mg/kg	T-TP-4	29/29	--	2.80E+04	N/A	7700	N	N/A	N/A	Y	ASL
	7440-36-0	Antimony	3.28E+00	6.50E+01	mg/kg	T-GP-14	10/29	2.8 - 4.8	6.50E+01	N/A	3.1	N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	2.83E+00	3.60E+01	mg/kg	T-TP-1	23/29	2.8 - 3.4	3.60E+01	N/A	0.39	C	N/A	N/A	Y	ASL
	7440-39-3	Barium	8.40E+01	1.30E+03	mg/kg	T-GP-18	29/29	--	1.30E+03	N/A	1500	N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	4.20E-01	1.00E+00	mg/kg	T-GP-15	2/29	0.28 - 1.6	1.00E+00	N/A	16	N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	3.90E-01	5.10E+00	mg/kg	T-TP-7	29/29	--	5.10E+00	N/A	7	N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1.30E+03	2.20E+04	mg/kg	T-TP-1	29/29	--	2.20E+04	N/A	N/A		N/A	N/A	N	NUT
	18540-29-9	Chromium (VI)	1.70E+01	2.20E+02	mg/kg	T-GP-2	29/29	--	2.20E+02	N/A	0.29	C	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	5.10E+00	2.10E+01	mg/kg	T-GP-7	29/29	--	2.10E+01	N/A	2.3	N	N/A	N/A	Y	ASL
	7440-50-8	Copper	2.20E+01	3.20E+03	mg/kg	T-GP-14	29/29	--	3.20E+03	N/A	310	N	N/A	N/A	Y	ASL
	57-12-5	Cyanide	6.80E-01	1.70E+01	mg/kg	T-GP-18	21/29	0.33 - 0.67	1.70E+01	N/A	2.2	N	N/A	N/A	Y	ASL
	7439-89-6	Iron	1.20E+04	1.10E+05	mg/kg	T-GP-2	29/29	--	1.10E+05	N/A	5500	N	N/A	N/A	Y	ASL
	7439-92-1	Lead	2.20E+01	5.00E+03	mg/kg	T-TP-7	29/29	--	5.00E+03	N/A	400	N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	4.70E+02	1.30E+04	mg/kg	T-TP-4	29/29	--	1.30E+04	N/A	N/A		N/A	N/A	N	NUT
	7439-96-5	Manganese	1.30E+02	1.10E+03	mg/kg	T-GP-17	29/29	--	1.10E+03	N/A	180	N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	1.30E-01	3.00E+01	mg/kg	T-GP-4	27/29	0.028 - 0.028	3.00E+01	N/A	2.3	N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	1.10E+01	8.40E+01	mg/kg	T-GP-1	29/29	--	8.40E+01	N/A	150	N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1.90E+02	9.30E+03	mg/kg	T-TP-4	29/29	--	9.30E+03	N/A	N/A		N/A	N/A	N	NUT
	7440-22-4	Silver	7.20E-01	2.90E+00	mg/kg	T-TP-7	7/29	0.55 - 0.93	2.90E+00	N/A	39	N	N/A	N/A	N	BSL
	7440-23-5	Sodium	1.10E+02	3.20E+02	mg/kg	T-GP-15	10/29	110 - 190	3.20E+02	N/A	N/A		N/A	N/A	N	NUT
	7440-62-2	Vanadium	1.00E+01	8.90E+01	mg/kg	T-TP-4	29/29	--	8.90E+01	N/A	39	N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	5.10E+01	1.50E+03	mg/kg	T-TP-7	29/29	--	1.50E+03	N/A	2300	N	N/A	N/A	N	BSL

TABLE C.4-2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current /Future
Medium: Soil
Exposure Medium: Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
South Bank Area		**EPH/PAHs**														
	91-57-6	2-Methylnaphthalene	1.38E-01	1.38E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.38E-01	N/A	23	N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	1.93E-01	1.93E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.93E-01	N/A	3.6	C	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	4.33E-01	4.33E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	4.33E-01	N/A	340	N	N/A	N/A	N	BSL
	86-73-7	Fluorene	4.98E-01	4.98E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	4.98E-01	N/A	230	N	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	3.64E+00	3.64E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	3.64E+00	N/A	170	N	N/A	N/A	N	BSL
	120-12-7	Anthracene	8.93E-01	8.93E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	8.93E-01	N/A	1700	N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	3.99E+00	3.99E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	3.99E+00	N/A	230	N	N/A	N/A	N	BSL
	129-00-0	Pyrene	3.69E+00	3.69E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	3.69E+00	N/A	170	N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)Anthracene	1.49E+00	1.49E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.49E+00	N/A	0.15	C	N/A	N/A	***Y***	ASL
	218-01-9	Chrysene	1.54E+00	1.54E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.54E+00	N/A	15	C	N/A	N/A	N	BSL
	205-99-2	Benzo(b)Fluoranthene	3.60E+00	3.60E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	3.60E+00	N/A	0.15	C	N/A	N/A	***Y***	ASL
	207-08-9	Benzo(k)Fluoranthene	6.93E-01	6.93E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	6.93E-01	N/A	1.5	C	N/A	N/A	N	BSL
	50-32-8	Benzo(a)Pyrene	2.80E+00	2.80E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	2.80E+00	N/A	0.015	C	N/A	N/A	***Y***	ASL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.19E+00	1.19E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.19E+00	N/A	0.15	C	N/A	N/A	***Y***	ASL
	53-70-3	Dibenz(a,h) anthracene	5.20E-01	5.20E-01	mg/kg	T-Bank 4	1/5	0.19 - 0.5	5.20E-01	N/A	0.015	C	N/A	N/A	***Y***	ASL
	191-24-2	Benzo(g,h,i)perylene	1.04E+00	1.04E+00	mg/kg	T-Bank 4	1/5	0.19 - 0.5	1.04E+00	N/A	170	N	N/A	N/A	N	BSL
	C19-C36	C19-C36 Aliphatic	6.93E+01	9.80E+01	mg/kg	T-Bank 4-3	2/5	19 - 25	9.80E+01	N/A	24,000	N	N/A	N/A	N	BSL
	C11-C22	C11-C22 Aromatic	3.90E+01	2.20E+02	mg/kg	T-Bank 4-3	5/5	--	2.20E+02	N/A	31	N	N/A	N/A	***Y***	ASL
		PCBs														
	1336-36-3	Total PCBs	2.80E-01	2.80E-01	mg/kg	T-Bank-4-4	1/5	0.12 - 0.25	2.80E-01	N/A	0.11	N	N/A	N/A	***Y***	ASL
		Metals, total														
	7429-90-5	Aluminum	2.60E+03	1.30E+04	mg/kg	T-Bank-4-2	5/5	--	1.30E+04	N/A	7700	N	N/A	N/A	***Y***	ASL
	7440-39-3	Barium	3.05E+01	5.80E+01	mg/kg	T-Bank-4-2	5/5	--	5.80E+01	N/A	1500	N	N/A	N/A	N	BSL
	7789-78-8	Calcium	7.50E+02	4.20E+03	mg/kg	T-Bank-4-3	5/5	--	4.20E+03	N/A	N/A		N/A	N/A	N	NUT
	18540-29-9	Chromium (VI)	6.00E+00	3.20E+01	mg/kg	T-Bank-4-2	5/5	--	3.20E+01	N/A	0.29	C	N/A	N/A	***Y***	ASL
	7440-48-4	Cobalt	4.90E+00	8.40E+00	mg/kg	T-Bank-4-2	3/5	5.1 - 6.3	8.40E+00	N/A	2.3	N	N/A	N/A	***Y***	ASL
	7440-50-8	Copper	1.30E+00	1.10E+01	mg/kg	T-Bank-4	5/5	--	1.10E+01	N/A	310	N	N/A	N/A	N	BSL
	57-12-5	Cyanide	1.00E+00	1.00E+00	mg/kg	T-Bank-4-1	1/5	0.52 - 1.2	1.00E+00	N/A	2.2	N	N/A	N/A	N	BSL
	7439-89-6	Iron	3.20E+03	1.60E+04	mg/kg	T-Bank-4-2	5/5	--	1.60E+04	N/A	5500	N	N/A	N/A	***Y***	ASL
	7439-92-1	Lead	6.40E+00	2.50E+01	mg/kg	T-Bank-4	5/5	--	2.50E+01	N/A	400	N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1.20E+03	5.50E+03	mg/kg	T-Bank-4-2	5/5	--	5.50E+03	N/A	N/A		N/A	N/A	N	NUT
	7439-96-5	Manganese	8.50E+01	3.40E+02	mg/kg	T-Bank-4-2	5/5	--	3.40E+02	N/A	180	N	N/A	N/A	***Y***	ASL
	7439-97-6	Mercury	8.80E-02	1.00E-01	mg/kg	T-Bank-4	2/5	0.031 - 0.054	1.00E-01	N/A	2.3	N	N/A	N/A	N	BSL
	7440-02-0	Nickel	4.40E+00	1.60E+01	mg/kg	T-Bank-4-2	5/5	--	1.60E+01	N/A	150	N	N/A	N/A	N	BSL
	7440-09-7	Potassium	8.30E+02	2.20E+03	mg/kg	T-Bank-4-2	5/5	--	2.20E+03	N/A	N/A		N/A	N/A	N	NUT
	7440-62-2	Vanadium	6.50E+00	3.10E+01	mg/kg	T-Bank-4-2	5/5	--	3.10E+01	N/A	39	N	N/A	N/A	N	BSL
	7440-66-6	Zinc	2.20E+01	6.80E+01	mg/kg	T-Bank-4-2	5/5	--	6.80E+01	N/A	2300	N	N/A	N/A	N	BSL

Notes:
(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 RSLs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 2012.

RSL for chromium VI used for chromium VI.
RSL for mercuric chloride used for mercury.
RSL for free cyanide used for total cyanide.
RSL for pyrene used for benzo(g,h,i)perylene and phenanthrene; RSL for acenaphthene used for acenaphthylene.
RSL for VPH/EPH fractions calculated using on-line RSL calculator and PPRTVs.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).

(5) Rationale Codes: Above Screening Levels (ASL)
Selection Reason: No Toxicity Information (NTX)
Deletion Reason: Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
mg/kg = milligams per kilogram
COPCs = Chemicals of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
RSL = Regional Screening Level
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
N/A = Not Applicable or Not Available
ND = Not Detected
EB = Blank contamination
EPH - Extractable Petroleum Hydrocarbons.
SVOCs - Semivolatile Organic Compounds.
PCBs - Polychlorinated Biphenyls.

TABLE C.4-3.1
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Little Falls Property, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Currrent
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	e Point Concentration Value	Units	Statistic (3)	Rationale (4)
Hydro Property	Naphthalene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Benzo(a)anthracene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Chrysene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Benzo(b)fluoranthene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Benzo(k)fluoranthene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Benzo(a)pyrene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Indeno(1,2,3-cd)pyrene	mg/kg	1.06E-01	N/A	1.20E-01	1.20E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	C11-C22 Aromatics	mg/kg	1.60E+01	N/A	2.40E+01	2.40E+01	mg/kg	Max	(a)
	Total PCBs	mg/kg	1.21E-01	N/A	1.75E-01	1.75E-01	mg/kg	Max	(a)
	Chromium (VI)	mg/kg	3.21E+01	N/A	8.50E+01	8.50E+01	mg/kg	Max	(a)
	Aluminum	mg/kg	7.29E+03	N/A	1.40E+04	1.40E+04	mg/kg	Max	(a)
	Antimony	mg/kg	N/A	N/A	ND	N/A	mg/kg		
	Arsenic	mg/kg	2.83E+00	N/A	3.60E+00	3.60E+00	mg/kg	Max	(a)
	Cobalt	mg/kg	6.59E+00	N/A	1.10E+01	1.10E+01	mg/kg	Max	(a)
	Iron	mg/kg	2.17E+04	N/A	6.00E+04	6.00E+04	mg/kg	Max	(a)
	Lead	mg/kg	1.52E+01	N/A	4.55E+01	N/A	mg/kg		
	Manganese	mg/kg	2.59E+02	N/A	5.85E+02	5.85E+02	mg/kg	Max	(a)
	Vanadium	mg/kg	2.25E+01	N/A	4.10E+01	4.10E+01	mg/kg	Max	(a)
Northern Transmission Line Property	Benzo(a)Anthracene	mg/kg	3.81E-01	N/A	1.50E+00	1.50E+00	mg/kg	Max	(a)
	Benzo(b)Fluoranthene	mg/kg	5.12E-01	N/A	2.50E+00	2.50E+00	mg/kg	Max	(a)
	Benzo(k)Fluoranthene	mg/kg	2.45E-01	N/A	9.40E-01	9.40E-01	mg/kg	Max	(a)
	Benzo(a)Pyrene	mg/kg	3.72E-01	N/A	1.90E+00	1.90E+00	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.20E-01	N/A	1.30E+00	1.30E+00	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	1.81E-01	N/A	3.20E-01	3.20E-01	mg/kg	Max	(a)
	C11-C22 Aromatics	mg/kg	8.55E+01	N/A	5.20E+02	5.20E+02	mg/kg	Max	(a)
	Total PCBs	mg/kg	1.24E+00	N/A	8.40E+00	8.40E+00	mg/kg	Max	(a)
	Chromium (VI)	mg/kg	7.63E+01	N/A	2.20E+02	2.20E+02	mg/kg	Max	(a)
	Aluminum	mg/kg	1.23E+04	N/A	2.80E+04	2.80E+04	mg/kg	Max	(a)
	Antimony	mg/kg	1.03E+01	N/A	6.50E+01	6.50E+01	mg/kg	Max	(a)
	Arsenic	mg/kg	8.88E+00	1.12E+01 (N)	2.10E+01	1.12E+01	mg/kg	95%UCL-N	(b)
	Cobalt	mg/kg	1.09E+01	N/A	2.10E+01	2.10E+01	mg/kg	Max	(a)
	Copper	mg/kg	2.85E+02	N/A	1.70E+03	1.70E+03	mg/kg	Max	(a)
	Cyanide	mg/kg	3.62E+00	N/A	1.70E+01	1.70E+01	mg/kg	Max	(a)
	Iron	mg/kg	3.69E+04	N/A	1.10E+05	1.10E+05	mg/kg	Max	(a)
	Lead	mg/kg	7.65E+02	1.28E+03 (NP)	4.30E+03	N/A	mg/kg		
	Manganese	mg/kg	4.99E+02	N/A	1.10E+03	1.10E+03	mg/kg	Max	(a)
	Mercury (inorganic)	mg/kg	3.12E+00	N/A	3.00E+01	3.00E+01	mg/kg	Max	(a)
	Vanadium	mg/kg	4.37E+01	N/A	8.90E+01	8.90E+01	mg/kg	Max	(a)
South Bank Area	Benzo(a)Anthracene	mg/kg	5.30E-01	N/A	1.49E+00	1.49E+00	mg/kg	Max	(a)
	Benzo(b)Fluoranthene	mg/kg	9.52E-01	N/A	3.60E+00	3.60E+00	mg/kg	Max	(a)
	Benzo(a)Pyrene	mg/kg	7.92E-01	N/A	2.80E+00	2.80E+00	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.70E-01	N/A	1.19E+00	1.19E+00	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	3.36E-01	N/A	5.20E-01	5.20E-01	mg/kg	Max	(a)
	C11-C22 Aromatics	mg/kg	9.43E+01	N/A	2.20E+02	2.20E+02	mg/kg	Max	(a)
	Total PCBs	mg/kg	2.01E-01	N/A	2.80E-01	2.80E-01	mg/kg	Max	(a)
	Chromium (VI)	mg/kg	2.07E+01	N/A	3.20E+01	3.20E+01	mg/kg	Max	(a)
	Aluminum	mg/kg	8.86E+03	N/A	1.30E+04	1.30E+04	mg/kg	Max	(a)
	Cobalt	mg/kg	6.05E+00	N/A	8.40E+00	8.40E+00	mg/kg	Max	(a)
	Iron	mg/kg	1.03E+04	N/A	1.60E+04	1.60E+04	mg/kg	Max	(a)
	Manganese	mg/kg	1.56E+02	N/A	3.40E+02	3.40E+02	mg/kg	Max	(a)

Notes:
(1) Only COPCs selected on Table 2.1 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% of Normal Data (95% UCL - N); 95% of Non-parametric Data (95% UCL - NP).
(4) Rationale
(a) Due to the small number of detected values, the maximum detected concentration is used.
(b) Shapiro-Wilk W Test indicates data are normally distributed.
(c) Shapiro-Wilk W Test indicates data are log-normally distributed.
(d) Shapiro-Wilk W Test indicates data are neither normally nor log-normally distributed.
(e) Recommended UCL exceeds maximum detected concentration. Therefore, maximum concentration is used for EPC.
(f) Due to high standard deviation, the maximum concentration is used.
J = Estimated concentration
Max = Maximum detected concentration
N/A = Not applicable
UCL = Upper confidence limit
EPC = Exposure point concentration
RME = Reasonable Maximum Exposure

TABLE C.4-3.2
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Little Falls Property, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil

Exposure Point (1)		Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)		Maximum Concentration (Qualifier)	e Point Concentration Value	Units	Statistic (3)	Rationale (4)
Hydro Property	91-20-3	Naphthalene	mg/kg	8.53E-01	N/A		7.00E+00	7.00E+00	mg/kg	Max	(a)
	56-55-3	Benzo(a)Anthracene	mg/kg	2.27E+00	N/A		1.30E+01	1.30E+01	mg/kg	Max	(a)
	218-01-9	Chrysene	mg/kg	3.28E+00	N/A		1.70E+01	1.70E+01	mg/kg	Max	(a)
	205-99-2	Benzo(b)Fluoranthene	mg/kg	3.79E+00	N/A		1.80E+01	1.80E+01	mg/kg	Max	(a)
	207-08-9	Benzo(k)Fluoranthene	mg/kg	1.37E+00	N/A		6.50E+00	6.50E+00	mg/kg	Max	(a)
	50-32-8	Benzo(a)Pyrene	mg/kg	2.52E+00	N/A		1.20E+01	1.20E+01	mg/kg	Max	(a)
	193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	2.02E+00	N/A		9.00E+00	9.00E+00	mg/kg	Max	(a)
	53-70-3	Dibenz(a,h)anthracene	mg/kg	5.89E-01	N/A		2.60E+00	2.60E+00	mg/kg	Max	(a)
	C11-C22	C11-C22 Aromatics	mg/kg	1.28E+02	N/A		6.20E+02	6.20E+02	mg/kg	Max	(a)
	53469-21-9	Total PCBs	mg/kg	1.20E-01	N/A		1.75E-01	1.75E-01	mg/kg	Max	(a)
	18540-29-9	Chromium (VI)	mg/kg	3.68E+01	5.03E+01	(N)	8.50E+01	5.03E+01	mg/kg	95%UCL-N	(b)
	7429-90-5	Aluminum	mg/kg	1.02E+04	1.28E+04	(N)	1.70E+04	1.28E+04	mg/kg	95%UCL-N	(b)
	7440-36-0	Antimony	mg/kg	3.05E+00	N/A		5.70E+00	5.70E+00	mg/kg	Max	(a)
	7440-38-2	Arsenic	mg/kg	5.97E+00	N/A		1.80E+01	1.80E+01	mg/kg	Max	(a)
	7440-48-4	Cobalt	mg/kg	8.61E+00	1.04E+01	(N)	1.30E+01	1.04E+01	mg/kg	95%UCL-N	(b)
	7439-89-6	Iron	mg/kg	2.11E+04	3.09E+04	(NP)	6.00E+04	3.09E+04	mg/kg	95%UCL-NP	(d)
	7439-92-1	Lead	mg/kg	1.61E+02	4.40E+02	(NP)	7.50E+02	N/A	mg/kg		
	7439-96-5	Manganese	mg/kg	3.15E+02	4.09E+02	(N)	5.90E+02	4.09E+02	mg/kg	95%UCL-N	(b)
	7440-62-2	Vanadium	mg/kg	4.22E+01	6.47E+01	(T)	1.20E+02	6.47E+01	mg/kg	95%UCL-T	(c)
Northern Transmission Line Property	56-55-3	Benzo(a)Anthracene	mg/kg	5.39E-01	8.45E-01	(NP)	5.10E+00	8.45E-01	mg/kg	95%UCL-NP	(d)
	205-99-2	Benzo(b)Fluoranthene	mg/kg	7.22E-01	1.15E+00	(NP)	6.30E+00	1.15E+00	mg/kg	95%UCL-NP	(d)
	207-08-9	Benzo(k)Fluoranthene	mg/kg	3.11E-01	4.34E-01	(NP)	2.30E+00	4.34E-01	mg/kg	95%UCL-NP	(d)
	50-32-8	Benzo(a)Pyrene	mg/kg	5.68E-01	9.73E-01	(NP)	5.30E+00	9.73E-01	mg/kg	95%UCL-NP	(d)
	193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	4.42E-01	6.51E-01	(NP)	3.80E+00	6.51E-01	mg/kg	95%UCL-NP	(d)
	53-70-3	Dibenz(a,h)anthracene	mg/kg	2.10E-01	N/A		1.00E+00	1.00E+00	mg/kg	Max	(a)
	C11-C22	C11-C22 Aromatics	mg/kg	8.35E+01	1.72E+02	(T)	5.20E+02	1.72E+02	mg/kg	95%UCL-T	(c)
	53469-21-9	Total PCBs	mg/kg	9.36E-01	3.08E+00	(T)	8.40E+00	3.08E+00	mg/kg	99%UCL-NP	(c)
	18540-29-9	Chromium (VI)	mg/kg	7.42E+01	8.81E+01	(NP)	2.20E+02	8.81E+01	mg/kg	95%UCL-NP	(d)
	7429-90-5	Aluminum	mg/kg	1.17E+04	1.39E+04	(N)	2.80E+04	1.39E+04	mg/kg	95%UCL-N	(b)
	7440-36-0	Antimony	mg/kg	9.27E+00	1.38E+01	(N)	6.50E+01	1.38E+01	mg/kg	95%UCL-N	(b)
	7440-38-2	Arsenic	mg/kg	9.99E+00	1.26E+01	(NP)	3.60E+01	1.26E+01	mg/kg	95%UCL-NP	(d)
	7440-48-4	Cobalt	mg/kg	1.06E+01	1.18E+01	(N)	2.10E+01	1.18E+01	mg/kg	95%UCL-N	(b)
	7440-50-8	Copper	mg/kg	4.10E+02	7.10E+02	(T)	3.20E+03	7.10E+02	mg/kg	95%UCL-T	(c)
	57-12-5	Cyanide	mg/kg	3.61E+00	4.91E+00	(NP)	1.70E+01	4.91E+00	mg/kg	95%UCL-NP	(d)
	7439-89-6	Iron	mg/kg	3.74E+04	4.49E+04	(NP)	1.10E+05	4.49E+04	mg/kg	95%UCL-NP	(d)
	7439-92-1	Lead	mg/kg	9.65E+02	1.49E+03	(NP)	5.00E+03	N/A	mg/kg		
	7439-96-5	Manganese	mg/kg	4.69E+02	5.42E+02	(N)	1.10E+03	5.42E+02	mg/kg	95%UCL-N	(b)
	7487-94-7	Mercury (Inorganic)	mg/kg	2.84E+00	9.51E+00	(T)	3.00E+01	9.51E+00	mg/kg	97.5%UCL-NP	(c)
	7440-62-2	Vanadium	mg/kg	4.20E+01	4.76E+01	(N)	8.90E+01	4.76E+01	mg/kg	95%UCL-N	(b)
South Bank Area	56-55-3	Benzo(a)Anthracene	mg/kg	5.30E-01	N/A		1.49E+00	1.49E+00	mg/kg	Max	(a)
	205-99-2	Benzo(b)Fluoranthene	mg/kg	9.52E-01	N/A		3.60E+00	3.60E+00	mg/kg	Max	(a)
	50-32-8	Benzo(a)Pyrene	mg/kg	7.92E-01	N/A		2.80E+00	2.80E+00	mg/kg	Max	(a)
	193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	4.70E-01	N/A		1.19E+00	1.19E+00	mg/kg	Max	(a)
	53-70-3	Dibenz(a,h)anthracene	mg/kg	3.36E-01	N/A		5.20E-01	5.20E-01	mg/kg	Max	(a)
	C11-C22	C11-C22 Aromatics	mg/kg	9.43E+01	N/A		2.20E+02	2.20E+02	mg/kg	Max	(a)
	53469-21-9	Total PCBs	mg/kg	2.01E-01	N/A		2.80E-01	2.80E-01	mg/kg	Max	(a)
	18540-29-9	Chromium (VI)	mg/kg	2.07E+01	N/A		3.20E+01	3.20E+01	mg/kg	Max	(a)
	7429-90-5	Aluminum	mg/kg	8.86E+03	N/A		1.30E+04	1.30E+04	mg/kg	Max	(a)
	7440-48-4	Cobalt	mg/kg	6.05E+00	N/A		8.40E+00	8.40E+00	mg/kg	Max	(a)
	7439-89-6	Iron	mg/kg	1.03E+04	N/A		1.60E+04	1.60E+04	mg/kg	Max	(a)
	7439-96-5	Manganese	mg/kg	1.56E+02	N/A		3.40E+02	3.40E+02	mg/kg	Max	(a)

Notes:
(1) Only COPCs selected on Table 2.1 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% of Normal Data (95% UCL - N); 95% of Non-parametric Data (95% UCL - NP).
(4) Rationale
(a) Due to the small number of detected values, the maximum detected concentration is used.
(b) Shapiro-Wilk W Test indicates data are normally distributed.
(c) Shapiro-Wilk W Test indicates data are log-normally distributed.
(d) Shapiro-Wilk W Test indicates data are neither normally nor log-normally distributed.
(e) Recommended UCL exceeds maximum detected concentration. Therefore, maximum concentration is used for EPC.
(f) Due to high standard deviation, the maximum concentration is used.
J = Estimated concentration
Max = Maximum detected concentration
N/A = Not applicable
UCL = Upper confidence limit
EPC = Exposure point concentration
RME = Reasonable Maximum Exposure

Table C.4-4.1
Values Used for Daily Intake Calculations
Reasonable Maximum Exposure
Little Falls Site, Hydro Transmission Line Property
Windham and Gorham, Maine

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil (0 - 2 ft)*

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Non-Intrusive Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Indoor Worker	Adult	Hydro Property	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Trespasser	Older Child (11 - 18 yrs)	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	MEDEP, 2009	
				ED	Exposure Duration	7	years	MEDEP, 2009	
				BW	Body Weight	52	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	

Table C.4-4.1
Values Used for Daily Intake Calculations
Reasonable Maximum Exposure
Little Falls Site, Hydro Transmission Line Property
Windham and Gorham, Maine

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil (0 - 2 ft)*

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Non-Intrusive Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Indoor Worker	Adult	Hydro Property	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.02	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	26	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Trespasser	Older Child (11 - 18 yrs)	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.1 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,000	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.04	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	52	days/year	MEDEP, 2009	
				ED	Exposure Duration	7	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	52	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	

Table C.4-4.2
Values Used for Daily Intake Calculations
Reasonable Maximum Exposure
Little Falls Site, Hydro Transmission Line Property
Windham and Gprham, Maine

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil (0 - 15 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Non-Intrusive Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Indoor Worker	Adult	Hydro Property	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Trespasser	Older Child (11 - 18 yrs)	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	MEDEP, 2009	
				ED	Exposure Duration	7	years	MEDEP, 2009	
				BW	Body Weight	52	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Intrusive Worker	Adult	Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	330	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				IR	Ingestion Rate of Soil	330	mg/day	MEDEP, 2009	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	250	days/year	MEDEP, 2009	
				ED	Exposure Duration	0.5	years	MEDEP, 2009	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	183	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	

Table C.4-4.2
Values Used for Daily Intake Calculations
Reasonable Maximum Exposure
Little Falls Site, Hydro Transmission Line Property
Windham and Gprham, Maine

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil (0 - 15 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation of fugitive dust	Intrusive Worker	Adult	Northern Transmission Line Property/ South Bank Area	CA	Chemical Concentration in Air	see Table 3.2 RME	mg/kg	--	CDI (mg/m^3) =
				ET	Exposure Time	8	hrs/day	MEDEP, 2009	CS x ET x EF x ED
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	AT x PEF x 24 hrs/day
				ED	Exposure Duration	25	years	MEDEP, 2009	
				PEF	Particulate Emission Factor	1.36E+09	m^3/kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
	Construction Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CA	Chemical Concentration in Air	see Table 3.2 RME	mg/kg	--	CDI (mg/m^3) =
				ET	Exposure Time	8	hrs/day	MEDEP, 2009	CS x ET x EF x ED
				EF	Exposure Frequency	250	days/year	MEDEP, 2009	AT x PEF x 24 hrs/day
				ED	Exposure Duration	0.5	years	MEDEP, 2009	
				PEF	Particulate Emission Factor	1.36E+09	m^3/kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	183	days	MEDEP, 2009	

Table C.4-4.2
Values Used for Daily Intake Calculations
Reasonable Maximum Exposure
Little Falls Site, Hydro Transmission Line Property
Windham and Gprham, Maine

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil (0 - 15 ft)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Non-Intrusive Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Indoor Worker	Adult	Hydro Property	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.02	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	26	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Trespasser	Older Child (11 - 18 yrs)	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,000	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.04	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	52	days/year	MEDEP, 2009	
				ED	Exposure Duration	7	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	52	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Intrusive Worker	Adult	Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.3	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	24	days/year	MEDEP, 2009	
				ED	Exposure Duration	25	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	Hydro Property/ Northern Transmission Line Property/ South Bank Area	CS	Chemical Concentration in Soil	see Table 3.2 RME	mg/kg	--	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	MEDEP, 2009	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.3	mg/cm^2-day	MEDEP, 2009	
				EF	Exposure Frequency	250	days/year	MEDEP, 2009	
				ED	Exposure Duration	0.5	years	MEDEP, 2009	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	MEDEP, 2009	
				AT-C	Averaging Time (Cancer)	25,550	days	MEDEP, 2009	
				AT-N	Averaging Time (Non-Cancer)	183	days	MEDEP, 2009	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE C.4-5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Chemical of Potential Concern	Chronic	Oral RfD		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units	(1)	Value (2)	Units			Source(s)	Date(s) (MM/DD/YYYY)
C11-C22 Aromatics	Chronic	3.00E-02	mg/kg-day	(4)	3.00E-02	mg/kg-day	Blood	3000	MassDEP	04/01/13
C11-C22 Aromatics	Subchronic	3.00E-01	mg/kg-day	(4)	3.00E-01	mg/kg-day	Blood	300	MassDEP	04/01/13
Naphthalene	Chronic	2.00E-02	mg/kg-day	(4)	2.00E-02	mg/kg-day	Blood	3000	IRIS	04/01/13
Naphthalene	Subchronic	2.00E-01	mg/kg-day	(4)	6.00E-01	mg/kg-day	Blood	300	ATSDR	04/01/13
Benzo(a)anthracene	Chronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(a)anthracene	Subchronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Chronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Subchronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Chronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Subchronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	Chronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	Subchronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Chrysene	Chronic	2.00E-02	mg/kg-day	(4)	2.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Chrysene	Subchronic	2.00E-02	mg/kg-day	(4)	2.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	Chronic	3.00E-02	mg/kg-day	(4)	3.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	Subchronic	3.00E-02	mg/kg-day	(4)	3.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Chronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Subchronic	4.00E-02	mg/kg-day	(4)	4.00E-02	mg/kg-day	N/A	N/A	N/A	N/A
Total PCBs	Chronic	2.00E-05	mg/kg-day	(4)	2.00E-05	mg/kg-day	Immune System/Skin	300	IRIS	04/01/13
Total PCBs	Subchronic	3.00E-05	mg/kg-day	(4)	3.00E-05	mg/kg-day	Immune System/Skin	100	ATSDR	04/01/13
Aluminum	Chronic	1.00E+00	mg/kg-day	(4)	1.00E+00	mg/kg-day	Developmental	100	ATSDR	04/01/13
Aluminum	Subchronic	1.00E+00	mg/kg-day	(4)	1.00E+00	mg/kg-day	Developmental	100	ATSDR	04/01/13
Antimony	Chronic	4.00E-04	mg/kg-day	0.15	6.00E-05	mg/kg-day	Blood	1000	IRIS	04/01/13
Antimony	Subchronic	4.00E-04	mg/kg-day	0.15	6.00E-05	mg/kg-day	Blood	1000	PPRTV	04/01/13
Arsenic	Chronic	3.00E-04	mg/kg-day	(4)	3.00E-04	mg/kg-day	Skin	3	IRIS	04/01/13
Arsenic	Subchronic	3.00E-04	mg/kg-day	(4)	3.00E-04	mg/kg-day	Skin	3	HEAST	1997
Chromium (VI)	Chronic	3.00E-03	mg/kg-day	0.025	7.50E-05	mg/kg-day	GI System	900	IRIS	04/01/13
Chromium (VI)	Subchronic	9.00E-03	mg/kg-day	0.025	2.25E-04	mg/kg-day	GI System	300	IRIS	04/01/13
Cobalt	Chronic	3.00E-04	mg/kg-day	(4)	3.00E-04	mg/kg-day	Endocrine	3000	PPRTV	04/01/13
Cobalt	Subchronic	3.00E-03	mg/kg-day	(4)	3.00E-03	mg/kg-day	Endocrine	300	PPRTV	04/01/13
Copper	Chronic	1.40E-02	mg/kg-day	(4)	1.40E-02	mg/kg-day	GI System	N/A	ATSDR	04/01/13
Copper	Subchronic	1.40E-02	mg/kg-day	(4)	1.40E-02	mg/kg-day	GI System	N/A	ATSDR	04/01/13
Cyanide	Chronic	6.00E-04	mg/kg-day	(4)	6.00E-04	mg/kg-day	Reproductive	3000	IRIS	04/01/13
Cyanide	Subchronic	6.00E-03	mg/kg-day	(4)	6.00E-03	mg/kg-day	Reproductive	300	IRIS	04/01/13
Iron	Chronic	7.00E-01	mg/kg-day	(4)	7.00E-01	mg/kg-day	GI System	2	PPRTV	04/01/13
Iron	Subchronic	7.00E-01	mg/kg-day	(4)	7.00E-01	mg/kg-day	GI System	2	PPRTV	04/01/13
Lead	N/A	N/A	mg/kg-day	(4)	N/A	mg/kg-day	N/A	N/A	N/A	N/A
Manganese	Chronic	2.40E-02	mg/kg-day	0.04	9.60E-04	mg/kg-day	Nervous System	3	IRIS	04/01/13
Manganese	Subchronic	2.40E-02	mg/kg-day	0.04	9.60E-04	mg/kg-day	Nervous System	3	IRIS	04/01/13
Mercury (inorganic)	Chronic	3.00E-04	mg/kg-day	0.07	2.10E-05	mg/kg-day	Immune System	1000	IRIS	04/01/13
Mercury (inorganic)	Subchronic	3.00E-03	mg/kg-day	0.07	2.10E-04	mg/kg-day	Immune System	100	IRIS	04/01/13
Vanadium	Chronic	5.00E-03	mg/kg-day	(4)	5.00E-03	mg/kg-day	Skin	100	IRIS	04/01/13
Vanadium	Subchronic	5.00E-03	mg/kg-day	(4)	5.00E-03	mg/kg-day	Skin	100	IRIS	04/01/13

(1) Oral Absorption Efficiencies from Exhibit 4-1, RAGS Part E, USEPA 2001.

(2) Calculated as: (oral RfD) x (oral to dermal adjustment factor).

(3) RfD for Aroclor 1254 used as a surrogate for Total PCBs (High risk and persistence; upper-bound slope factor).

RfDs for managanese are based on total allowable intake (10 mg/day) minus the background intake (5 mg/day). The remaining intake (5 mg/day) is divided by 70 kg.

RfD for mercury (inorganic) based on mercuric chloride.

RfD for vanadium is based on vanadium pentoxide.

RfD for fluoranthene used for benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene and indeno(1,2,3-cd)pyrene.

RfD for naphthalene used for chrysene; RfD for pyrene used for dibenz(a,h)anthracene.

(4) Oral absorption efficiency exceeds 50%. Therefore, no adjustment of the oral reference dose is necessary (USEPA, 2001).

(5) See Appendix C for lead model calculations

When the chronic RfD is based on a subchronic study, a subchronic RfD has been developed by the elimination of the 10-fold uncertainty factor for subchronic to chronic adjustment. If no subchronic data are available, the chronic RfD has been adopted as the subchronic RfD.

IRIS = Integrated Risk Information System

HEAST = Health Effects Assessment Summary Tables

N/A = Not Applicable/Not Available

PPRTV = Provisional Peer-Reviewed Toxicity Value

CalEPA = California Environmental Protection Agency

TABLE C.4-5.2

NON-CANCER TOXICITY DATA -- INHALATION

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Chemical of Potential Concern	Chronic	Inhalation RfC		Extrapolated RfD(1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
C11-C22 Aromatics	Chronic	5.00E-02	mg/m^3	N/A	N/A	Kidney	1000	MassDEP	04/01/13
C11-C22 Aromatics	Subchronic	5.00E-01	mg/m^3			Kidney	100	MassDEP	04/01/13
Naphthalene	Chronic	3.00E-03	mg/m^3	N/A	N/A	Respiratory	3000	IRIS	04/01/13
Naphthalene	Subchronic	3.00E-03	mg/m^3	N/A	N/A	Respiratory	3000	IRIS	04/01/13
Benzo(a)anthracene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Total PCBs	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Total PCBs	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum	Chronic	5.00E-03	mg/m^3	N/A	N/A	Nervous System	300	PPRTV	04/01/13
Aluminum	Subchronic	5.00E-03	mg/m^3	N/A	N/A	Nervous System	300	PPRTV	04/01/13
Antimony	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Antimony	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	Chronic	1.50E-05	mg/m^3	N/A	N/A	Developmental	30	CalEPA	04/01/13
Arsenic	Subchronic	1.50E-05	mg/m^3	N/A	N/A	Developmental	30	CalEPA	04/01/13
Chromium (VI)	Chronic	1.00E-04	mg/m^3	N/A	N/A	Respiratory	300	IRIS	04/01/13
Chromium (VI)	Subchronic	3.00E-03	mg/m^3	N/A	N/A	Respiratory	30	ATSDR	04/01/13
Cobalt	Chronic	6.00E-06	mg/m^3	N/A	N/A	Respiratory	300	PPRTV	04/01/13
Cobalt	Subchronic	2.00E-05	mg/m^3	N/A	N/A	Respiratory	100	PPRTV	04/01/13
Copper	Chronic	1.00E-03	mg/m^3	N/A	N/A	N/A	N/A	RIVM	04/01/13
Copper	Subchronic	1.00E-03	mg/m^3	N/A	N/A	N/A	N/A	RIVM	04/01/13
Cyanide	Chronic	8.00E-04	mg/m^3	N/A	N/A	N/A	N/A	RIVM	04/01/13
Cyanide	Subchronic	2.00E-03	mg/m^3	N/A	N/A	N/A	N/A	RIVM	04/01/13
Iron	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Iron	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Lead	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	Chronic	5.00E-05	mg/m^3	N/A	N/A	Nervous System	1000	IRIS	04/01/13
Manganese	Subchronic	1.50E-04	mg/m^3	N/A	N/A	Nervous System	300	IRIS	04/01/13
Mercury (inorganic)	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Mercury (inorganic)	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium	Chronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium	Subchronic	N/A	mg/m^3	N/A	N/A	N/A	N/A	N/A	N/A

IRIS = Integrated Risk Information System

PPRTV = Provisional Peer-Reviewed Toxicity Value

CalEPA = California Environmental Protection Agency

RIVM - Dutch National Institute for Public Health and the Environment

RME = Reasonable Maximum Exposure

N/A = Not Applicable

(1) RfC for mercury (inorganic) based on elemental mercury.

(2) See Appendix B.6 for lead model calculations.

TABLE C.4-6.1

CANCER TOXICITY DATA -- ORAL/DERMAL

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal	Absorbed Cancer Slope Factor for Dermal		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
C11-C22 Aromatics	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	PPRTV	04/01/13
Naphthalene	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	C	IRIS	04/01/13
Benzo(a)anthracene	7.30E-01	(mg/kg-day) $^{-1}$	(1)	7.30E-01	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Benzo(a)pyrene	7.30E+00	(mg/kg-day) $^{-1}$	(1)	7.30E+00	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Benzo(b)fluoranthene	7.30E-01	(mg/kg-day) $^{-1}$	(1)	7.30E-01	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Benzo(k)fluoranthene	7.30E-02	(mg/kg-day) $^{-1}$	(1)	7.30E-02	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Chrysene	7.30E-03	(mg/kg-day) $^{-1}$	(1)	7.30E-03	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Dibenz(a,h)anthracene	7.30E+00	(mg/kg-day) $^{-1}$	(1)	7.30E+00	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Indeno(1,2,3-cd)pyrene	7.30E-01	(mg/kg-day) $^{-1}$	(1)	7.30E-01	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Total PCBs	2.00E+00	(mg/kg-day) $^{-1}$	(1)	2.00E+00	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Aluminum	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	PPRTV	04/01/13
Antimony	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	PPRTV	04/01/13
Arsenic	1.50E+00	(mg/kg-day) $^{-1}$	(1)	1.50E+00	(mg/kg-day) $^{-1}$	A	IRIS	04/01/13
Chromium (VI)	5.00E-01	(mg/kg-day) $^{-1}$	0.025	2.00E+01	(mg/kg-day) $^{-1}$	NA	NJDEP	04/01/13
Cobalt	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Likely	PPRTV	04/01/13
Copper	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	D	IRIS	04/01/13
Cyanide	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	IRIS	04/01/13
Iron	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	PPRTV	04/01/13
Lead	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	B2	IRIS	04/01/13
Manganese	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	D	IRIS	04/01/13
Mercury (inorganic)	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	C	IRIS	04/01/13
Vanadium	N/A	(mg/kg-day) $^{-1}$	N/A	N/A	(mg/kg-day) $^{-1}$	Inadequate	PPRTV	04/01/13

IRIS = Integrated Risk Information System

PPRTV = Provisional Peer-Reviewed Toxicity Value

N/A = Not Applicable/Not Available

CalEPA = California Environmental Protection Agency

NJDEP = New Jersey Department of Environmental Protection

Slope factor for benzo(a)pyrene, along with the appropriate relative potency factor (USEPA, 1993), used for the other carcinogenic PAHs.

Weight of evidence for mercury (inorganic) based on elemental mercury.

(1) Oral absorption efficiency exceeds 50%. Therefore, no adjustment of the oral slope factor is necessary.

(2) Calculated as: (oral slope factor) / (oral to dermal adjustment factor)

(3) See Appendix B.6 for lead model calculations.

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human da

B2 - Probable human carcinogen - indicates sufficient evidence in inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen (by the oral route)

E - Evidence of noncarcinogenicity

TABLE C.4-6.2

CANCER TOXICITY DATA -- INHALATION

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
C11-C22 Aromatics	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	PPRTV	04/01/13
Naphthalene	3.40E-05	$(ug/m^3)^{-1}$	N/A	N/A	C	CalEPA	04/01/13
Benzo(a)anthracene	1.10E-04	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Benzo(a)pyrene	1.10E-03	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Benzo(b)fluoranthene	1.10E-04	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Benzo(k)fluoranthene	1.10E-04	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Chrysene	1.10E-05	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Dibenz(a,h)anthracene	1.10E-03	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Indeno(1,2,3-cd)pyrene	1.10E-04	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	04/01/13
Total PCBs	5.70E-04	$(ug/m^3)^{-1}$	N/A	N/A	B2	IRIS	04/01/13
Aluminum	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	PPRTV	04/01/13
Antimony	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	PPRTV	04/01/13
Arsenic	4.30E-03	$(ug/m^3)^{-1}$	N/A	N/A	A	IRIS	04/01/13
Chromium (VI)	8.40E-02	$(ug/m^3)^{-1}$	N/A	N/A	A	IRIS	04/01/13
Cobalt	9.00E-03	$(ug/m^3)^{-1}$	N/A	N/A	Likely	PPRTV	04/01/13
Copper	N/A	$(ug/m^3)^{-1}$	N/A	N/A	D	IRIS	04/01/13
Cyanide	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	IRIS	04/01/13
Iron	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	PPRTV	04/01/13
Lead (4)	N/A	$(ug/m^3)^{-1}$	N/A	N/A	B2	IRIS	04/01/13
Manganese	N/A	$(ug/m^3)^{-1}$	N/A	N/A	D	IRIS	04/01/13
Mercury (inorganic)	N/A	$(ug/m^3)^{-1}$	N/A	N/A	C	IRIS	04/01/13
Vanadium	N/A	$(ug/m^3)^{-1}$	N/A	N/A	Inadequate	PPRTV	04/01/13

IRIS = Integrated Risk Information System

PPRTV = Provisional Peer-Reviewed Toxicity Value

CalEPA = California Environmental Protection Agency

HEAST = Health Effects Assessment Summary Tables

N/A = Not Applicable

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen (by the oral route)

E - Evidence of noncarcinogenicity

(1) UR for Aroclor 1242,1248, and 1260 is based on Aroclor 1254

(2) Weight of evidence for mercury (inorganic) based on elemental mercury.

(3) See Appendix B.6 for lead model calculations.

TABLE C.4-7.1

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Indoor Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Hydro Property	Ingestion													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.6E-09	6.1E-09	mg/kg-day	4.0E-02	mg/kg-day	1.5E-07
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	3.0E-02	mg/kg-day	4.1E-05
				Total PCBs	2E-01	mg/kg	3.2E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	6.4E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.5E-04
				Chromium (VI)	9E+01	mg/kg	1.5E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	7.7E-07	4.3E-06	mg/kg-day	3.0E-03	mg/kg-day	1.4E-03
				Aluminum	1E+04	mg/kg	2.5E-04	mg/kg-day	N/A	N/A	N/A	7.1E-04	mg/kg-day	1.0E+00	mg/kg-day	7.1E-04
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.0E-04	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	6.5E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	9.8E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.1E-04
				Cobalt	1E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Iron	6E+04	mg/kg	1.1E-03	mg/kg-day	N/A	N/A	N/A	3.1E-03	mg/kg-day	7.0E-01	mg/kg-day	4.4E-03
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	2.4E-02	mg/kg-day	1.2E-03
				Vanadium	4E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	5.0E-03	mg/kg-day	4.2E-04
			Exp. Route Total								9E-07					1E-02
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.7E-10	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.7E-10	1.0E-09	mg/kg-day	4.0E-02	mg/kg-day	2.6E-08
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	3.0E-02	mg/kg-day	5.4E-06
				Total PCBs	2E-01	mg/kg	5.9E-10	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.2E-09	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Chromium (VI)	9E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	2.6E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	3.9E-09	7.3E-09	mg/kg-day	3.0E-04	mg/kg-day	2.4E-05
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	4E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								5E-09					1E-04
		Exposure Point Total									9E-07					1E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA
										Total of Receptor Risks Across All Media	NA				Total of Receptor Hazards Across All Media	NA

TABLE C.4-7.2

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Indoor Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface/Subsurface Soil	Hydro Property	Ingestion													
				Naphthalene	7E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Benzo(a)anthracene	1E+01	mg/kg	2.4E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.7E-07	6.6E-07	mg/kg-day	4.0E-02	mg/kg-day	1.7E-05
				Chrysene	2E+01	mg/kg	3.1E-07	mg/kg-day	7.3E-03	mg/kg-day^{-1}	2.3E-09	8.6E-07	mg/kg-day	2.0E-02	mg/kg-day	4.3E-05
				Benzo(b)fluoranthene	2E+01	mg/kg	3.3E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.4E-07	9.2E-07	mg/kg-day	4.0E-02	mg/kg-day	2.3E-05
				Benzo(k)fluoranthene	7E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-02	mg/kg-day^{-1}	8.6E-09	3.3E-07	mg/kg-day	4.0E-02	mg/kg-day	8.3E-06
				Benzo(a)pyrene	1E+01	mg/kg	2.2E-07	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.6E-06	6.1E-07	mg/kg-day	4.0E-02	mg/kg-day	1.5E-05
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.2E-07	4.6E-07	mg/kg-day	4.0E-02	mg/kg-day	1.1E-05
				Dibenz(a,h)anthracene	3E+00	mg/kg	4.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	3.4E-07	1.3E-07	mg/kg-day	3.0E-02	mg/kg-day	4.4E-06
				C11-C22 Aromatics	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Total PCBs	2E-01	mg/kg	3.2E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	6.4E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.5E-04
				Chromium (VI)	5E+01	mg/kg	9.1E-07	mg/kg-day	5.0E-01	mg/kg-day^{-1}	4.6E-07	2.6E-06	mg/kg-day	3.0E-03	mg/kg-day	8.5E-04
				Aluminum	1E+04	mg/kg	2.3E-04	mg/kg-day	N/A	N/A	N/A	6.5E-04	mg/kg-day	1.0E+00	mg/kg-day	6.5E-04
				Antimony	6E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	4.0E-04	mg/kg-day	7.3E-04
				Arsenic	2E+01	mg/kg	3.3E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	4.9E-07	9.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cobalt	1E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Iron	3E+04	mg/kg	5.6E-04	mg/kg-day	N/A	N/A	N/A	1.6E-03	mg/kg-day	7.0E-01	mg/kg-day	2.2E-03
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	2.4E-02	mg/kg-day	8.7E-04
				Vanadium	6E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	5.0E-03	mg/kg-day	6.6E-04
			Exp. Route Total								3E-06					1E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Naphthalene	7E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	2.0E-02	mg/kg-day	3.1E-06
				Benzo(a)anthracene	1E+01	mg/kg	4.1E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.0E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.8E-06
				Chrysene	2E+01	mg/kg	5.3E-08	mg/kg-day	7.3E-03	mg/kg-day^{-1}	3.9E-10	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.4E-06
				Benzo(b)fluoranthene	2E+01	mg/kg	5.6E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	4.1E-08	1.6E-07	mg/kg-day	4.0E-02	mg/kg-day	3.9E-06
				Benzo(k)fluoranthene	7E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	1.5E-09	5.7E-08	mg/kg-day	4.0E-02	mg/kg-day	1.4E-06
				Benzo(a)pyrene	1E+01	mg/kg	3.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.7E-07	1.0E-07	mg/kg-day	4.0E-02	mg/kg-day	2.6E-06
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	2.8E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.0E-08	7.9E-08	mg/kg-day	4.0E-02	mg/kg-day	2.0E-06
				Dibenz(a,h)anthracene	3E+00	mg/kg	8.1E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	5.9E-08	2.3E-08	mg/kg-day	3.0E-02	mg/kg-day	7.6E-07
				C11-C22 Aromatics	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	3.0E-02	mg/kg-day	1.4E-04
				Total PCBs	2E-01	mg/kg	5.9E-10	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.2E-09	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Chromium (VI)	5E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	2E+01	mg/kg	1.3E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.9E-08	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	6E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								4E-07					4E-04
		Exposure Point Total									4E-06					1E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA

Total of Receptor Risks Across All Media: NA

Total of Receptor Hazards Across All Media: NA

TABLE C.4-7.3

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Hydro Property	Ingestion													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	5.8E-09	3.3E-08	mg/kg-day	4.0E-02	mg/kg-day	8.2E-07
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	3.0E-02	mg/kg-day	2.2E-04
				Total PCBs	2E-01	mg/kg	4.8E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	9.6E-09	4.8E-08	mg/kg-day	2.0E-05	mg/kg-day	2.4E-03
				Chromium (VI)	9E+01	mg/kg	2.3E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	2.8E-06	2.3E-05	mg/kg-day	3.0E-03	mg/kg-day	7.8E-03
				Aluminum	1E+04	mg/kg	3.8E-04	mg/kg-day	N/A	N/A	N/A	3.8E-03	mg/kg-day	1.0E+00	mg/kg-day	3.8E-03
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.0E-04	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	9.9E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.5E-07	9.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-03
				Cobalt	1E+01	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				Iron	6E+04	mg/kg	1.6E-03	mg/kg-day	N/A	N/A	N/A	1.6E-02	mg/kg-day	7.0E-01	mg/kg-day	2.3E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	2.4E-02	mg/kg-day	6.7E-03
				Vanadium	4E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	5.0E-03	mg/kg-day	2.2E-03
			Exp. Route Total								3E-06					6E-02
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	8.5E-10	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.5E-09	8.5E-09	mg/kg-day	4.0E-02	mg/kg-day	2.1E-07
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	3.0E-02	mg/kg-day	4.4E-05
				Total PCBs	2E-01	mg/kg	1.3E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	2.7E-09	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.7E-04
				Chromium (VI)	9E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	5.9E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	8.9E-09	5.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	4E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								1E-08					9E-04
		Exposure Point Total									3E-06					6E-02

TABLE C.4-7.3

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface Soil (Cont.)	Northern Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.1E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	7.3E-08	4.1E-07	mg/kg-day	4.0E-02	mg/kg-day	1.0E-05
				Benzo(b)Fluoranthene	2.5E+00	mg/kg	6.8E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.2E-07	6.8E-07	mg/kg-day	4.0E-02	mg/kg-day	1.7E-05
				Benzo(k)Fluoranthene	9.4E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	4.6E-09	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.4E-06
				Benzo(a)Pyrene	1.9E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	9.2E-07	5.2E-07	mg/kg-day	4.0E-02	mg/kg-day	1.3E-05
				Indeno(1,2,3-cd)pyrene	1.3E+00	mg/kg	3.6E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	6.3E-08	3.6E-07	mg/kg-day	4.0E-02	mg/kg-day	8.9E-06
				Dibenz(a,h)anthracene	3.2E-01	mg/kg	8.8E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.6E-07	8.8E-08	mg/kg-day	3.0E-02	mg/kg-day	2.9E-06
				C11-C22 Aromatics	5.2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-02	mg/kg-day	4.7E-03
				Total PCBs	8.4E+00	mg/kg	2.3E-07	mg/kg-day	2.0E+00	mg/kg-day^{-1}	4.6E-07	2.3E-06	mg/kg-day	2.0E-05	mg/kg-day	1.2E-01
				Chromium (VI)	2.2E+02	mg/kg	6.0E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	7.3E-06	6.0E-05	mg/kg-day	3.0E-03	mg/kg-day	2.0E-02
				Aluminum	2.8E+04	mg/kg	7.7E-04	mg/kg-day	N/A	N/A	N/A	7.7E-03	mg/kg-day	1.0E+00	mg/kg-day	7.7E-03
				Antimony	6.5E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	4.0E-04	mg/kg-day	4.5E-02
				Arsenic	1.1E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	4.6E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				Cobalt	2.1E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
				Copper	1.7E+03	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	1.4E-02	mg/kg-day	3.3E-02
				Cyanide	1.7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	6.0E-04	mg/kg-day	7.8E-03
				Iron	1.1E+05	mg/kg	3.0E-03	mg/kg-day	N/A	N/A	N/A	3.0E-02	mg/kg-day	7.0E-01	mg/kg-day	4.3E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	1.1E+03	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	2.4E-02	mg/kg-day	1.3E-02
				Mercury (inorganic)	3.0E+01	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
				Vanadium	8.9E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	5.0E-03	mg/kg-day	4.9E-03
			Exp. Route Total								1E-05					4E-01
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.9E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.7E-06
				Benzo(b)Fluoranthene	2.5E+00	mg/kg	1.8E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.2E-08	1.8E-07	mg/kg-day	4.0E-02	mg/kg-day	4.5E-06
				Benzo(k)Fluoranthene	9.4E-01	mg/kg	6.7E-09	mg/kg-day	7.3E-02	mg/kg-day^{-1}	1.2E-09	6.7E-08	mg/kg-day	4.0E-02	mg/kg-day	1.7E-06
				Benzo(a)Pyrene	1.9E+00	mg/kg	1.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.4E-07	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.4E-06
				Indeno(1,2,3-cd)pyrene	1.3E+00	mg/kg	9.3E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.6E-08	9.3E-08	mg/kg-day	4.0E-02	mg/kg-day	2.3E-06
				Dibenz(a,h)anthracene	3.2E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	4.0E-08	2.3E-08	mg/kg-day	3.0E-02	mg/kg-day	7.6E-07
				C11-C22 Aromatics	5.2E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-02	mg/kg-day	9.5E-04
				Total PCBs	8.4E+00	mg/kg	6.4E-08	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.3E-07	6.4E-07	mg/kg-day	2.0E-05	mg/kg-day	3.2E-02
				Chromium (VI)	2.2E+02	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	2.8E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6.5E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.1E+01	mg/kg	1.8E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	2.8E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.1E-04
				Cobalt	2.1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Copper	1.7E+03	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	1.7E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-04	N/A	N/A
				Iron	1.1E+05	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	1.1E+03	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	3.0E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1E-05	mg/kg-day	N/A
				Vanadium	8.9E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								5E-07					3E-02
		Exposure Point Total									1E-05					4E-01

TABLE C.4-7.3

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.1E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	7.2E-08	4.1E-07	mg/kg-day	4.0E-02	mg/kg-day	1.0E-05
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.7E-07	9.9E-07	mg/kg-day	4.0E-02	mg/kg-day	2.5E-05
				Benzo(a)Pyrene	2.8E+00	mg/kg	7.7E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.4E-06	7.7E-07	mg/kg-day	4.0E-02	mg/kg-day	1.9E-05
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	3.3E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	5.8E-08	3.3E-07	mg/kg-day	4.0E-02	mg/kg-day	8.2E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	2.5E-07	1.4E-07	mg/kg-day	3.0E-02	mg/kg-day	4.7E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Total PCBs	2.8E-01	mg/kg	7.7E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	1.5E-08	7.7E-08	mg/kg-day	2.0E-05	mg/kg-day	3.8E-03
				Chromium (VI)	3.2E+01	mg/kg	8.8E-07	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	1.1E-06	8.8E-06	mg/kg-day	3.0E-03	mg/kg-day	2.9E-03
				Aluminum	1.3E+04	mg/kg	3.6E-04	mg/kg-day	N/A	N/A	N/A	3.6E-03	mg/kg-day	1.0E+00	mg/kg-day	3.6E-03
				Cobalt	8.4E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.7E-03
				Iron	1.6E+04	mg/kg	4.4E-04	mg/kg-day	N/A	N/A	N/A	4.4E-03	mg/kg-day	7.0E-01	mg/kg-day	6.3E-03
				Manganese	3.4E+02	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	2.4E-02	mg/kg-day	3.9E-03
			Exp. Route Total								3E-06					3E-02
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.9E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.7E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	4.5E-08	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.4E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	2.0E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	3.5E-07	2.0E-07	mg/kg-day	4.0E-02	mg/kg-day	5.0E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	8.5E-09	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.5E-08	8.5E-08	mg/kg-day	4.0E-02	mg/kg-day	2.1E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	3.7E-09	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	6.6E-08	3.7E-08	mg/kg-day	3.0E-02	mg/kg-day	1.2E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.0E-04
				Total PCBs	2.8E-01	mg/kg	2.1E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	4.3E-09	2.1E-08	mg/kg-day	2.0E-05	mg/kg-day	1.1E-03
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								5E-07					1E-03
		Exposure Point Total									4E-06					3E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA
										Total of Receptor Risks Across All Media	NA				Total of Receptor Hazards Across All Media	NA

Notes

Early-life cancer risk calculations for carcinogenic PAHs and chromium VI calculated by multiplying the result by the default age-dependent adjustment factor (ADAF) of 3 for 5/7 of the result (ages 11-16) and an ADAF of 1 for 2/7 of the result (ages 17-18).

TABLE C.4-7.4

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface/Subsurface Soil	Hydro Property	Ingestion													
				Naphthalene	7E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.6E-05
				Benzo(a)anthracene	1E+01	mg/kg	3.6E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	6.3E-07	3.6E-06	mg/kg-day	4.0E-02	mg/kg-day	8.9E-05
				Chrysene	2E+01	mg/kg	4.7E-07	mg/kg-day	7.3E-03	mg/kg-day^{-1}	8.3E-09	4.7E-06	mg/kg-day	2.0E-02	mg/kg-day	2.3E-04
				Benzo(b)fluoranthene	2E+01	mg/kg	4.9E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	8.7E-07	4.9E-06	mg/kg-day	4.0E-02	mg/kg-day	1.2E-04
				Benzo(k)fluoranthene	7E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-02	mg/kg-day^{-1}	3.2E-08	1.8E-06	mg/kg-day	4.0E-02	mg/kg-day	4.5E-05
				Benzo(a)pyrene	1E+01	mg/kg	3.3E-07	mg/kg-day	7.3E+00	mg/kg-day^{-1}	5.8E-06	3.3E-06	mg/kg-day	4.0E-02	mg/kg-day	8.2E-05
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	2.5E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	4.4E-07	2.5E-06	mg/kg-day	4.0E-02	mg/kg-day	6.2E-05
				Dibenz(a,h)anthracene	3E+00	mg/kg	7.1E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.3E-06	7.1E-07	mg/kg-day	3.0E-02	mg/kg-day	2.4E-05
				C11-C22 Aromatics	6E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.7E-03
				Total PCBs	2E-01	mg/kg	4.8E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	9.6E-09	4.8E-08	mg/kg-day	2.0E-05	mg/kg-day	2.4E-03
				Chromium (VI)	5E+01	mg/kg	1.4E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	1.7E-06	1.4E-05	mg/kg-day	3.0E-03	mg/kg-day	4.6E-03
				Aluminum	1E+04	mg/kg	3.5E-04	mg/kg-day	N/A	N/A	N/A	3.5E-03	mg/kg-day	1.0E+00	mg/kg-day	3.5E-03
				Antimony	6E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	4.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	mg/kg	4.9E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.4E-07	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cobalt	1E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.5E-03
				Iron	3E+04	mg/kg	8.5E-04	mg/kg-day	N/A	N/A	N/A	8.5E-03	mg/kg-day	7.0E-01	mg/kg-day	1.2E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	2.4E-02	mg/kg-day	4.7E-03
				Vanadium	6E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	5.0E-03	mg/kg-day	3.5E-03
			Exp. Route Total								1E-05					7E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Naphthalene	7E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Benzo(a)anthracene	1E+01	mg/kg	9.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.6E-07	9.3E-07	mg/kg-day	4.0E-02	mg/kg-day	2.3E-05
				Chrysene	2E+01	mg/kg	1.2E-07	mg/kg-day	7.3E-03	mg/kg-day^{-1}	2.1E-09	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	6.1E-05
				Benzo(b)fluoranthene	2E+01	mg/kg	1.3E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.3E-07	1.3E-06	mg/kg-day	4.0E-02	mg/kg-day	3.2E-05
				Benzo(k)fluoranthene	7E+00	mg/kg	4.6E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	8.2E-09	4.6E-07	mg/kg-day	4.0E-02	mg/kg-day	1.2E-05
				Benzo(a)pyrene	1E+01	mg/kg	8.5E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.5E-06	8.5E-07	mg/kg-day	4.0E-02	mg/kg-day	2.1E-05
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	6.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.1E-07	6.4E-07	mg/kg-day	4.0E-02	mg/kg-day	1.6E-05
				Dibenz(a,h)anthracene	3E+00	mg/kg	1.9E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	3.3E-07	1.9E-07	mg/kg-day	3.0E-02	mg/kg-day	6.2E-06
				C11-C22 Aromatics	6E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Total PCBs	2E-01	mg/kg	1.3E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	6.5E-09	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.7E-04
				Chromium (VI)	5E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	2E+01	mg/kg	3.0E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	4.4E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.9E-04
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	6E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								2E-06					3E-03
		Exposure Point Total									1E-05					7E-02

TABLE C.4-7.4

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	Northern Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	8.5E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	4.1E-08	2.3E-07	mg/kg-day	4.0E-02	mg/kg-day	5.8E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	3.2E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	5.6E-08	3.2E-07	mg/kg-day	4.0E-02	mg/kg-day	7.9E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	2.1E-09	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	3.0E-06
				Benzo(a)Pyrene	9.7E-01	mg/kg	2.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	4.7E-07	2.7E-07	mg/kg-day	4.0E-02	mg/kg-day	6.7E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.2E-08	1.8E-07	mg/kg-day	4.0E-02	mg/kg-day	4.5E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	2.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	4.9E-07	2.7E-07	mg/kg-day	3.0E-02	mg/kg-day	9.1E-06
				C11-C22 Aromatics	1.7E+02	mg/kg	4.7E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Total PCBs	3.1E+00	mg/kg	8.4E-08	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.7E-07	8.4E-07	mg/kg-day	2.0E-05	mg/kg-day	4.2E-02
				Chromium (VI)	8.8E+01	mg/kg	2.4E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	2.9E-06	2.4E-05	mg/kg-day	3.0E-03	mg/kg-day	8.0E-03
				Aluminum	1.4E+04	mg/kg	3.8E-04	mg/kg-day	N/A	N/A	N/A	3.8E-03	mg/kg-day	1.0E+00	mg/kg-day	3.8E-03
				Antimony	1.4E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	4.0E-04	mg/kg-day	9.4E-03
				Arsenic	1.3E+01	mg/kg	3.4E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	5.2E-07	3.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cobalt	1.2E+01	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Copper	7.1E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	1.4E-02	mg/kg-day	1.4E-02
				Cyanide	4.9E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	6.0E-04	mg/kg-day	2.2E-03
				Iron	4.5E+04	mg/kg	1.2E-03	mg/kg-day	N/A	N/A	N/A	1.2E-02	mg/kg-day	7.0E-01	mg/kg-day	1.8E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	2.4E-02	mg/kg-day	6.2E-03
				Mercury (inorganic)	9.5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03
				Vanadium	4.8E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	5.0E-03	mg/kg-day	2.6E-03
			Exp. Route Total								5E-06					1E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	8.5E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.1E-08	6.0E-08	mg/kg-day	4.0E-02	mg/kg-day	1.5E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	8.2E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.5E-08	8.2E-08	mg/kg-day	4.0E-02	mg/kg-day	2.1E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E-02	mg/kg-day^{-1}	5.5E-10	3.1E-08	mg/kg-day	4.0E-02	mg/kg-day	7.7E-07
				Benzo(a)Pyrene	9.7E-01	mg/kg	6.9E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.2E-07	6.9E-08	mg/kg-day	4.0E-02	mg/kg-day	1.7E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	4.6E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	8.2E-09	4.6E-08	mg/kg-day	4.0E-02	mg/kg-day	1.2E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	7.1E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.3E-07	7.1E-08	mg/kg-day	3.0E-02	mg/kg-day	2.4E-06
				C11-C22 Aromatics	1.7E+02	mg/kg	9.4E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	3.0E-02	mg/kg-day	3.1E-04
				Total PCBs	3.1E+00	mg/kg	2.4E-08	mg/kg-day	2.0E+00	mg/kg-day^{-1}	4.7E-08	2.4E-07	mg/kg-day	2.0E-05	mg/kg-day	1.2E-02
				Chromium (VI)	8.8E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.4E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	1.4E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.3E+01	mg/kg	2.1E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	3.1E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Cobalt	1.2E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Copper	7.1E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	4.9E+00	mg/kg	N/A	N/A	N/A	N/A		N/A	N/A	6.0E-04	mg/kg-day	N/A
				Iron	4.5E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	9.5E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1E-05	mg/kg-day	N/A
				Vanadium	4.8E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									5E-06					2E-01

TABLE C.4-7.4

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.1E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	7.2E-08	4.1E-07	mg/kg-day	4.0E-02	mg/kg-day	1.0E-05
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.7E-07	9.9E-07	mg/kg-day	4.0E-02	mg/kg-day	2.5E-05
				Benzo(a)Pyrene	2.8E+00	mg/kg	7.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.4E-06	7.7E-07	mg/kg-day	4.0E-02	mg/kg-day	1.9E-05
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	3.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	5.8E-08	3.3E-07	mg/kg-day	4.0E-02	mg/kg-day	8.2E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.5E-07	1.4E-07	mg/kg-day	3.0E-02	mg/kg-day	4.7E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Total PCBs	2.8E-01	mg/kg	7.7E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.5E-08	7.7E-08	mg/kg-day	2.0E-05	mg/kg-day	3.8E-03
				Chromium (VI)	3.2E+01	mg/kg	8.8E-07	mg/kg-day	5.0E-01	mg/kg-day^{-1}	1.1E-06	8.8E-06	mg/kg-day	3.0E-03	mg/kg-day	2.9E-03
				Aluminum	1.3E+04	mg/kg	3.6E-04	mg/kg-day	N/A	N/A	N/A	3.6E-03	mg/kg-day	1.0E+00	mg/kg-day	3.6E-03
				Cobalt	8.4E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.7E-03
				Iron	1.6E+04	mg/kg	4.4E-04	mg/kg-day	N/A	N/A	N/A	4.4E-03	mg/kg-day	7.0E-01	mg/kg-day	6.3E-03
				Manganese	3.4E+02	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	2.4E-02	mg/kg-day	3.9E-03
			Exp. Route Total								3E-06					3E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.9E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.7E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	4.5E-08	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.4E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	2.0E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	3.5E-07	2.0E-07	mg/kg-day	4.0E-02	mg/kg-day	5.0E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	8.5E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.5E-08	8.5E-08	mg/kg-day	4.0E-02	mg/kg-day	2.1E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	3.7E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	6.6E-08	3.7E-08	mg/kg-day	3.0E-02	mg/kg-day	1.2E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.0E-04
				Total PCBs	2.8E-01	mg/kg	2.1E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	4.3E-09	2.1E-08	mg/kg-day	2.0E-05	mg/kg-day	1.1E-03
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								5E-07					1E-03
		Exposure Point Total									4E-06					3E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA

Total of Receptor Risks Across All Media: NA

Total of Receptor Hazards Across All Media: NA

Notes

Early-life cancer risk calculations for carcinogenic PAHs and chromium VI calculated by multiplying the result by the default age-dependent adjustment factor (ADAF) of 3 for 5/7 of the result (ages 11-16) and an ADAF of 1 for 2/7 of the result (ages 17-18).

TABLE C.4-7.5

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Hydro Property	Ingestion													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	4.0E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.9E-09	1.1E-08	mg/kg-day	4.0E-02	mg/kg-day	2.8E-07
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	3.0E-02	mg/kg-day	7.5E-05
				Total PCBs	2E-01	mg/kg	5.9E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.2E-08	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	8.2E-04
				Chromium (VI)	9E+01	mg/kg	2.9E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	1.4E-06	8.0E-06	mg/kg-day	3.0E-03	mg/kg-day	2.7E-03
				Aluminum	1E+04	mg/kg	4.7E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.0E+00	mg/kg-day	1.3E-03
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.0E-04	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	1.2E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cobalt	1E+01	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.4E-03
				Iron	6E+04	mg/kg	2.0E-03	mg/kg-day	N/A	N/A	N/A	5.6E-03	mg/kg-day	7.0E-01	mg/kg-day	8.1E-03
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	2.4E-02	mg/kg-day	2.3E-03
				Vanadium	4E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	5.0E-03	mg/kg-day	7.7E-04
			Exp. Route Total								2E-06					2E-02
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Naphthalene	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(a)anthracene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Chrysene	N/A	mg/kg	N/A	N/A	7.3E-03	mg/kg-day^{-1}	N/A	N/A	N/A	2.0E-02	mg/kg-day	N/A
				Benzo(b)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-01	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(k)fluoranthene	N/A	mg/kg	N/A	N/A	7.3E-02	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Benzo(a)pyrene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	4.0E-02	mg/kg-day	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.5E-09	9.7E-09	mg/kg-day	4.0E-02	mg/kg-day	2.4E-07
				Dibenz(a,h)anthracene	N/A	mg/kg	N/A	N/A	7.3E+00	mg/kg-day^{-1}	N/A	N/A	N/A	3.0E-02	mg/kg-day	N/A
				C11-C22 Aromatics	2E+01	mg/kg	5.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-02	mg/kg-day	5.0E-05
				Total PCBs	2E-01	mg/kg	5.4E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.1E-08	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	7.6E-04
				Chromium (VI)	9E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	4E+00	mg/kg	2.4E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	3.6E-08	6.7E-08	mg/kg-day	3.0E-04	mg/kg-day	2.2E-04
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	6E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	4E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								5E-08					1E-03
		Exposure Point Total									2E-06					2E-02

TABLE C.4-7.5

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface Soil (Cont.)	Northern Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	5.0E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.7E-08	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.5E-06
				Benzo(b)Fluoranthene	2.5E+00	mg/kg	8.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	6.1E-08	2.3E-07	mg/kg-day	4.0E-02	mg/kg-day	5.9E-06
				Benzo(k)Fluoranthene	9.4E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	2.3E-09	8.8E-08	mg/kg-day	4.0E-02	mg/kg-day	2.2E-06
				Benzo(a)Pyrene	1.9E+00	mg/kg	6.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	4.7E-07	1.8E-07	mg/kg-day	4.0E-02	mg/kg-day	4.5E-06
				Indeno(1,2,3-cd)pyrene	1.3E+00	mg/kg	4.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.2E-08	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	3.1E-06
				Dibenz(a,h)anthracene	3.2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	7.8E-08	3.0E-08	mg/kg-day	3.0E-02	mg/kg-day	1.0E-06
				C11-C22 Aromatics	5.2E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Total PCBs	8.4E+00	mg/kg	2.8E-07	mg/kg-day	2.0E+00	mg/kg-day^{-1}	5.6E-07	7.9E-07	mg/kg-day	2.0E-05	mg/kg-day	3.9E-02
				Chromium (VI)	2.2E+02	mg/kg	7.4E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	3.7E-06	2.1E-05	mg/kg-day	3.0E-03	mg/kg-day	6.9E-03
				Aluminum	2.8E+04	mg/kg	9.4E-04	mg/kg-day	N/A	N/A	N/A	2.6E-03	mg/kg-day	1.0E+00	mg/kg-day	2.6E-03
				Antimony	6.5E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.5E-02
				Arsenic	1.1E+01	mg/kg	3.8E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	5.6E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cobalt	2.1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.6E-03
				Copper	1.7E+03	mg/kg	5.7E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.4E-02	mg/kg-day	1.1E-02
				Cyanide	1.7E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	6.0E-04	mg/kg-day	2.7E-03
				Iron	1.1E+05	mg/kg	3.7E-03	mg/kg-day	N/A	N/A	N/A	1.0E-02	mg/kg-day	7.0E-01	mg/kg-day	1.5E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	1.1E+03	mg/kg	3.7E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	2.4E-02	mg/kg-day	4.3E-03
				Mercury (inorganic)	3.0E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Vanadium	8.9E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	5.0E-03	mg/kg-day	1.7E-03
			Exp. Route Total								5E-06					1E-01
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.2E-08	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	3.0E-06
				Benzo(b)Fluoranthene	2.5E+00	mg/kg	7.2E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	5.3E-08	2.0E-07	mg/kg-day	4.0E-02	mg/kg-day	5.0E-06
				Benzo(k)Fluoranthene	9.4E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	2.0E-09	7.6E-08	mg/kg-day	4.0E-02	mg/kg-day	1.9E-06
				Benzo(a)Pyrene	1.9E+00	mg/kg	5.5E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	4.0E-07	1.5E-07	mg/kg-day	4.0E-02	mg/kg-day	3.8E-06
				Indeno(1,2,3-cd)pyrene	1.3E+00	mg/kg	3.7E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.7E-08	1.0E-07	mg/kg-day	4.0E-02	mg/kg-day	2.6E-06
				Dibenz(a,h)anthracene	3.2E-01	mg/kg	9.2E-09	mg/kg-day	7.3E+00	mg/kg-day^{-1}	6.7E-08	2.6E-08	mg/kg-day	3.0E-02	mg/kg-day	8.6E-07
				C11-C22 Aromatics	5.2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Total PCBs	8.4E+00	mg/kg	2.6E-07	mg/kg-day	2.0E+00	mg/kg-day^{-1}	5.2E-07	7.3E-07	mg/kg-day	2.0E-05	mg/kg-day	3.6E-02
				Chromium (VI)	2.2E+02	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	2.8E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6.5E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.1E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.1E-07	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Cobalt	2.1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Copper	1.7E+03	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	1.7E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-04	N/A	N/A
				Iron	1.1E+05	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	1.1E+03	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	3.0E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1E-05	mg/kg-day	N/A
				Vanadium	8.9E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									7E-06					2E-01

TABLE C.4-7.5

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Current
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	5.0E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.6E-08	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.5E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	8.8E-08	3.4E-07	mg/kg-day	4.0E-02	mg/kg-day	8.5E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	9.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	6.9E-07	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.6E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.9E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.8E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.3E-07	4.9E-08	mg/kg-day	3.0E-02	mg/kg-day	1.6E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	6.9E-04
				Total PCBs	2.8E-01	mg/kg	9.4E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.9E-08	2.6E-08	mg/kg-day	2.0E-05	mg/kg-day	1.3E-03
				Chromium (VI)	3.2E+01	mg/kg	1.1E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	5.4E-07	3.0E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
				Aluminum	1.3E+04	mg/kg	4.4E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	1.0E+00	mg/kg-day	1.2E-03
				Cobalt	8.4E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Iron	1.6E+04	mg/kg	5.4E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-01	mg/kg-day	2.1E-03
				Manganese	3.4E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	2.4E-02	mg/kg-day	1.3E-03
			Exp. Route Total								2E-06					1E-02
Soil (Cont.)	Surface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.1E-08	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	3.0E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	7.6E-08	2.9E-07	mg/kg-day	4.0E-02	mg/kg-day	7.3E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	8.1E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	5.9E-07	2.3E-07	mg/kg-day	4.0E-02	mg/kg-day	5.6E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	3.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.5E-08	9.6E-08	mg/kg-day	4.0E-02	mg/kg-day	2.4E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.5E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.1E-07	4.2E-08	mg/kg-day	3.0E-02	mg/kg-day	1.4E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.5E-04
				Total PCBs	2.8E-01	mg/kg	8.7E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.7E-08	2.4E-08	mg/kg-day	2.0E-05	mg/kg-day	1.2E-03
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								8E-07					2E-03
		Exposure Point Total									2E-06					1E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA
										Total of Receptor Risks Across All Media	NA				Total of Receptor Hazards Across All Media	NA

TABLE C.4-7.6

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface/Subsurface Soil	Hydro Property	Ingestion													
				Naphthalene	7E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Benzo(a)anthracene	1E+01	mg/kg	4.4E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.2E-07	1.2E-06	mg/kg-day	4.0E-02	mg/kg-day	3.1E-05
				Chrysene	2E+01	mg/kg	5.7E-07	mg/kg-day	7.3E-03	mg/kg-day^{-1}	4.2E-09	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.0E-05
				Benzo(b)fluoranthene	2E+01	mg/kg	6.0E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	4.4E-07	1.7E-06	mg/kg-day	4.0E-02	mg/kg-day	4.2E-05
				Benzo(k)fluoranthene	7E+00	mg/kg	2.2E-07	mg/kg-day	7.3E-02	mg/kg-day^{-1}	1.6E-08	6.1E-07	mg/kg-day	4.0E-02	mg/kg-day	1.5E-05
				Benzo(a)pyrene	1E+01	mg/kg	4.0E-07	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.9E-06	1.1E-06	mg/kg-day	4.0E-02	mg/kg-day	2.8E-05
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	3.0E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.2E-07	8.5E-07	mg/kg-day	4.0E-02	mg/kg-day	2.1E-05
				Dibenz(a,h)anthracene	3E+00	mg/kg	8.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	6.4E-07	2.4E-07	mg/kg-day	3.0E-02	mg/kg-day	8.1E-06
				C11-C22 Aromatics	6E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Total PCBs	2E-01	mg/kg	5.9E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.2E-08	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	8.2E-04
				Chromium (VI)	5E+01	mg/kg	1.7E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	8.4E-07	4.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.6E-03
				Aluminum	1E+04	mg/kg	4.3E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	1.0E+00	mg/kg-day	1.2E-03
				Antimony	6E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.4E-07	mg/kg-day	4.0E-04	mg/kg-day	1.3E-03
				Arsenic	2E+01	mg/kg	6.0E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	9.1E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
				Cobalt	1E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Iron	3E+04	mg/kg	1.0E-03	mg/kg-day	N/A	N/A	N/A	2.9E-03	mg/kg-day	7.0E-01	mg/kg-day	4.1E-03
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	2.4E-02	mg/kg-day	1.6E-03
				Vanadium	6E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	5.0E-03	mg/kg-day	1.2E-03
			Exp. Route Total								6E-06					2E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Naphthalene	7E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Benzo(a)anthracene	1E+01	mg/kg	3.7E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.7E-07	1.0E-06	mg/kg-day	4.0E-02	mg/kg-day	2.6E-05
				Chrysene	2E+01	mg/kg	4.9E-07	mg/kg-day	7.3E-03	mg/kg-day^{-1}	3.6E-09	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	6.9E-05
				Benzo(b)fluoranthene	2E+01	mg/kg	5.2E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.8E-07	1.5E-06	mg/kg-day	4.0E-02	mg/kg-day	3.6E-05
				Benzo(k)fluoranthene	7E+00	mg/kg	1.9E-07	mg/kg-day	7.3E-02	mg/kg-day^{-1}	1.4E-08	5.2E-07	mg/kg-day	4.0E-02	mg/kg-day	1.3E-05
				Benzo(a)pyrene	1E+01	mg/kg	3.5E-07	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.5E-06	9.7E-07	mg/kg-day	4.0E-02	mg/kg-day	2.4E-05
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	2.6E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.9E-07	7.3E-07	mg/kg-day	4.0E-02	mg/kg-day	1.8E-05
				Dibenz(a,h)anthracene	3E+00	mg/kg	7.5E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	5.5E-07	2.1E-07	mg/kg-day	3.0E-02	mg/kg-day	7.0E-06
				C11-C22 Aromatics	6E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Total PCBs	2E-01	mg/kg	5.4E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.1E-08	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	7.6E-04
				Chromium (VI)	5E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	2E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.8E-07	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	6E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								4E-06					3E-03
		Exposure Point Total									1E-05					3E-02

TABLE C.4-7.6

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	North Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	8.5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.1E-08	7.9E-08	mg/kg-day	4.0E-02	mg/kg-day	2.0E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	3.9E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.8E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.7E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	1.1E-09	4.1E-08	mg/kg-day	4.0E-02	mg/kg-day	1.0E-06
				Benzo(a)Pyrene	9.7E-01	mg/kg	3.3E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.4E-07	9.1E-08	mg/kg-day	4.0E-02	mg/kg-day	2.3E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.6E-08	6.1E-08	mg/kg-day	4.0E-02	mg/kg-day	1.5E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	3.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.4E-07	9.4E-08	mg/kg-day	3.0E-02	mg/kg-day	3.1E-06
				C11-C22 Aromatics	1.7E+02	mg/kg	5.8E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-02	mg/kg-day	5.4E-04
				Total PCBs	3.1E+00	mg/kg	1.0E-07	mg/kg-day	2.0E+00	mg/kg-day^{-1}	2.1E-07	2.9E-07	mg/kg-day	2.0E-05	mg/kg-day	1.4E-02
				Chromium (VI)	8.8E+01	mg/kg	3.0E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	1.5E-06	8.3E-06	mg/kg-day	3.0E-03	mg/kg-day	2.8E-03
				Aluminum	1.4E+04	mg/kg	4.6E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.0E+00	mg/kg-day	1.3E-03
				Antimony	1.4E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	1.3E+01	mg/kg	4.2E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	6.3E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Cobalt	1.2E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Copper	7.1E+02	mg/kg	2.4E-05	mg/kg-day	N/A	N/A	N/A	6.7E-05	mg/kg-day	1.4E-02	mg/kg-day	4.8E-03
				Cyanide	4.9E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	6.0E-04	mg/kg-day	7.7E-04
				Iron	4.5E+04	mg/kg	1.5E-03	mg/kg-day	N/A	N/A	N/A	4.2E-03	mg/kg-day	7.0E-01	mg/kg-day	6.0E-03
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	2.4E-02	mg/kg-day	2.1E-03
				Mercury (inorganic)	9.5E+00	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Vanadium	4.8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	5.0E-03	mg/kg-day	8.9E-04
			Exp. Route Total								3E-06					5E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	8.5E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.8E-08	6.8E-08	mg/kg-day	4.0E-02	mg/kg-day	1.7E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	3.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.4E-08	9.3E-08	mg/kg-day	4.0E-02	mg/kg-day	2.3E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-02	mg/kg-day^{-1}	9.1E-10	3.5E-08	mg/kg-day	4.0E-02	mg/kg-day	8.7E-07
				Benzo(a)Pyrene	9.7E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.0E-07	7.8E-08	mg/kg-day	4.0E-02	mg/kg-day	2.0E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	1.4E-08	5.2E-08	mg/kg-day	4.0E-02	mg/kg-day	1.3E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	2.9E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	2.1E-07	8.1E-08	mg/kg-day	3.0E-02	mg/kg-day	2.7E-06
				C11-C22 Aromatics	1.7E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-02	mg/kg-day	3.5E-04
				Total PCBs	3.1E+00	mg/kg	9.6E-08	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.9E-07	2.7E-07	mg/kg-day	2.0E-05	mg/kg-day	1.3E-02
				Chromium (VI)	8.8E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.4E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	1.4E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.3E+01	mg/kg	8.4E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.3E-07	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.8E-04
				Cobalt	1.2E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Copper	7.1E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	4.9E+00	mg/kg	N/A	N/A	N/A	N/A		N/A	N/A	6.0E-04	mg/kg-day	N/A
				Iron	4.5E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	9.5E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1E-05	mg/kg-day	N/A
				Vanadium	4.8E+01	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								8E-07					1E-02
		Exposure Point Total									4E-06					6E-02

TABLE C.4-7.6

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Non-Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	5.0E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.6E-08	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.5E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	8.8E-08	3.4E-07	mg/kg-day	4.0E-02	mg/kg-day	8.5E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	9.4E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	6.9E-07	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.6E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.9E-08	1.1E-07	mg/kg-day	4.0E-02	mg/kg-day	2.8E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.3E-07	4.9E-08	mg/kg-day	3.0E-02	mg/kg-day	1.6E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	6.9E-04
				Total PCBs	2.8E-01	mg/kg	9.4E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.9E-08	2.6E-08	mg/kg-day	2.0E-05	mg/kg-day	1.3E-03
				Chromium (VI)	3.2E+01	mg/kg	1.1E-06	mg/kg-day	5.0E-01	mg/kg-day^{-1}	5.4E-07	3.0E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
				Aluminum	1.3E+04	mg/kg	4.4E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	1.0E+00	mg/kg-day	1.2E-03
				Cobalt	8.4E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Iron	1.6E+04	mg/kg	5.4E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-01	mg/kg-day	2.1E-03
				Manganese	3.4E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	2.4E-02	mg/kg-day	1.3E-03
			Exp. Route Total								2E-06					1E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	4.3E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	3.1E-08	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	3.0E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	mg/kg-day^{-1}	7.6E-08	2.9E-07	mg/kg-day	4.0E-02	mg/kg-day	7.3E-06
				Benzo(a)Pyrene	2.8E+00	mg/kg	8.1E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	5.9E-07	2.3E-07	mg/kg-day	4.0E-02	mg/kg-day	5.6E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	3.4E-08	mg/kg-day	7.3E-01	mg/kg-day^{-1}	2.5E-08	9.6E-08	mg/kg-day	4.0E-02	mg/kg-day	2.4E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.5E-08	mg/kg-day	7.3E+00	mg/kg-day^{-1}	1.1E-07	4.2E-08	mg/kg-day	3.0E-02	mg/kg-day	1.4E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.5E-04
				Total PCBs	2.8E-01	mg/kg	8.7E-09	mg/kg-day	2.0E+00	mg/kg-day^{-1}	1.7E-08	2.4E-08	mg/kg-day	2.0E-05	mg/kg-day	1.2E-03
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day^{-1}	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								8E-07					2E-03
		Exposure Point Total									2E-06					1E-02
	Exposure Medium Total										NA					NA
Medium Total											NA					NA

Total of Receptor Risks Across All Media: NA

Total of Receptor Hazards Across All Media: NA

TABLE C.4-7.7

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface/Subsurface Soil	Northern Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	8.5E-01	mg/kg	9.4E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	6.8E-08	2.6E-07	mg/kg-day	4.0E-02	mg/kg-day	6.5E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	9.3E-08	3.6E-07	mg/kg-day	4.0E-02	mg/kg-day	8.9E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	3.5E-09	1.3E-07	mg/kg-day	4.0E-02	mg/kg-day	3.4E-06
				Benzo(a)Pyrene	9.7E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	7.9E-07	3.0E-07	mg/kg-day	4.0E-02	mg/kg-day	7.5E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	7.2E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	5.3E-08	2.0E-07	mg/kg-day	4.0E-02	mg/kg-day	5.0E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	1.1E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	8.1E-07	3.1E-07	mg/kg-day	3.0E-02	mg/kg-day	1.0E-05
				C11-C22 Aromatics	1.7E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	5.3E-05	mg/kg-day	3.0E-02	mg/kg-day	1.8E-03
				Total PCBs	3.1E+00	mg/kg	3.4E-07	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	6.8E-07	9.6E-07	mg/kg-day	2.0E-05	mg/kg-day	4.8E-02
				Chromium (VI)	8.8E+01	mg/kg	9.8E-06	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	4.9E-06	2.7E-05	mg/kg-day	3.0E-03	mg/kg-day	9.1E-03
				Aluminum	1.4E+04	mg/kg	1.5E-03	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.3E-03	mg/kg-day	1.0E+00	mg/kg-day	4.3E-03
				Antimony	1.4E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.3E-06	mg/kg-day	4.0E-04	mg/kg-day	1.1E-02
				Arsenic	1.3E+01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.1E-06	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
				Cobalt	1.2E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Copper	7.1E+02	mg/kg	7.9E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.2E-04	mg/kg-day	1.4E-02	mg/kg-day	1.6E-02
				Cyanide	4.9E+00	mg/kg	5.4E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.5E-06	mg/kg-day	6.0E-04	mg/kg-day	2.5E-03
				Iron	4.5E+04	mg/kg	5.0E-03	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.4E-02	mg/kg-day	7.0E-01	mg/kg-day	2.0E-02
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	6.0E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.7E-04	mg/kg-day	2.4E-02	mg/kg-day	7.0E-03
				Mercury (inorganic)	9.5E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.8E-03
				Vanadium	4.8E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.5E-05	mg/kg-day	5.0E-03	mg/kg-day	3.0E-03
			Exp. Route Total								9E-06					2E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	8.5E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.7E-08	1.0E-07	mg/kg-day	4.0E-02	mg/kg-day	2.6E-06
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	5.0E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	3.6E-08	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.5E-06
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	1.4E-09	5.2E-08	mg/kg-day	4.0E-02	mg/kg-day	1.3E-06
				Benzo(a)Pyrene	9.7E-01	mg/kg	4.2E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	3.1E-07	1.2E-07	mg/kg-day	4.0E-02	mg/kg-day	2.9E-06
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.1E-08	7.9E-08	mg/kg-day	4.0E-02	mg/kg-day	2.0E-06
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	4.3E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	3.2E-07	1.2E-07	mg/kg-day	3.0E-02	mg/kg-day	4.0E-06
				C11-C22 Aromatics	1.7E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.6E-05	mg/kg-day	3.0E-02	mg/kg-day	5.3E-04
				Total PCBs	3.1E+00	mg/kg	1.4E-07	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	2.9E-07	4.0E-07	mg/kg-day	2.0E-05	mg/kg-day	2.0E-02
				Chromium (VI)	8.8E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.4E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	1.4E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.3E+01	mg/kg	1.3E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.9E-07	3.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
				Cobalt	1.2E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Copper	7.1E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	4.9E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	6.0E-04	mg/kg-day	N/A
				Iron	4.5E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	9.5E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	2.1E-05	mg/kg-day	N/A
				Vanadium	4.8E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								1E-06					2E-02

TABLE C.4-7.7

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Inhalation													
				Benzo(a)Anthracene	8.5E-01	mg/kg	4.9E-09	ug/m3	1.1E-04	(ug/m3)-1	5.3E-13	1.4E-11	mg/m3	N/A	N/A	N/A
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	6.6E-09	ug/m3	1.1E-04	(ug/m3)-1	7.3E-13	1.9E-11	mg/m3	N/A	N/A	N/A
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	2.5E-09	ug/m3	1.1E-04	(ug/m3)-1	2.7E-13	7.0E-12	mg/m3	N/A	N/A	N/A
				Benzo(a)Pyrene	9.7E-01	mg/kg	5.6E-09	ug/m3	1.1E-03	(ug/m3)-1	6.2E-12	1.6E-11	mg/m3	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	3.7E-09	ug/m3	1.1E-04	(ug/m3)-1	4.1E-13	1.0E-11	mg/m3	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	5.8E-09	ug/m3	1.1E-03	(ug/m3)-1	6.3E-12	1.6E-11	mg/m3	N/A	N/A	N/A
				C11-C22 Aromatics	1.7E+02	mg/kg	9.9E-07	ug/m3	N/A	N/A	N/A	2.8E-09	mg/m3	5.0E-02	mg/m3	5.5E-08
				Total PCBs	3.1E+00	mg/kg	1.8E-08	ug/m3	5.7E-04	(ug/m3)-1	1.0E-11	5.0E-11	mg/m3	N/A	N/A	N/A
				Chromium (VI)	8.8E+01	mg/kg	5.1E-07	ug/m3	8.4E-02	(ug/m3)-1	4.3E-08	1.4E-09	mg/m3	1.0E-04	mg/m3	1.4E-05
				Aluminum	1.4E+04	mg/kg	8.0E-05	ug/m3	N/A	N/A	N/A	2.2E-07	mg/m3	5.0E-03	mg/m3	4.5E-05
				Antimony	1.4E+01	mg/kg	7.9E-08	ug/m3	N/A	N/A	N/A	2.2E-10	mg/m3	N/A	N/A	N/A
				Arsenic	1.3E+01	mg/kg	7.2E-08	ug/m3	4.3E-03	(ug/m3)-1	3.1E-10	2.0E-10	mg/m3	1.5E-05	mg/m3	1.4E-05
				Cobalt	1.2E+01	mg/kg	6.8E-08	ug/m3	9.0E-03	(ug/m3)-1	6.1E-10	1.9E-10	mg/m3	6.0E-06	mg/m3	3.2E-05
				Copper	7.1E+02	mg/kg	4.1E-06	ug/m3	N/A	N/A	N/A	1.1E-08	mg/m3	1.0E-03	mg/m3	1.1E-05
				Cyanide	4.9E+00	mg/kg	2.8E-08	ug/m3	N/A	N/A	N/A	7.9E-11	mg/m3	8.0E-04	mg/m3	9.9E-08
				Iron	4.5E+04	mg/kg	2.6E-04	ug/m3	N/A	N/A	N/A	7.2E-07	mg/m3	N/A	N/A	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	3.1E-06	ug/m3	N/A	N/A	N/A	8.7E-09	mg/m3	5.0E-05	mg/m3	1.7E-04
				Mercury (inorganic)	9.5E+00	mg/kg	5.5E-08	ug/m3	N/A	N/A	N/A	1.5E-10	mg/m3	N/A	N/A	N/A
				Vanadium	4.8E+01	mg/kg	2.7E-07	ug/m3	N/A	N/A	N/A	7.7E-10	mg/m3	N/A	N/A	N/A
			Exp. Route Total								4E-08					3E-04
		Exposure Point Total									1E-05					2E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.2E-07	4.6E-07	mg/kg-day	4.0E-02	mg/kg-day	1.2E-05
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	4.0E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.9E-07	1.1E-06	mg/kg-day	4.0E-02	mg/kg-day	2.8E-05
				Benzo(a)Pyrene	2.8E+00	mg/kg	3.1E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	2.3E-06	8.7E-07	mg/kg-day	4.0E-02	mg/kg-day	2.2E-05
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	9.6E-08	3.7E-07	mg/kg-day	4.0E-02	mg/kg-day	9.2E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	5.8E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	4.2E-07	1.6E-07	mg/kg-day	3.0E-02	mg/kg-day	5.4E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	2.4E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	6.8E-05	mg/kg-day	3.0E-02	mg/kg-day	2.3E-03
				Total PCBs	2.8E-01	mg/kg	3.1E-08	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	6.2E-08	8.7E-08	mg/kg-day	2.0E-05	mg/kg-day	4.3E-03
				Chromium (VI)	3.2E+01	mg/kg	3.5E-06	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	1.8E-06	9.9E-06	mg/kg-day	3.0E-03	mg/kg-day	3.3E-03
				Aluminum	1.3E+04	mg/kg	1.4E-03	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.0E-03	mg/kg-day	1.0E+00	mg/kg-day	4.0E-03
				Cobalt	8.4E+00	mg/kg	9.3E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03
				Iron	1.6E+04	mg/kg	1.8E-03	mg/kg-day	N/A	N/A $^{-1}$	N/A	5.0E-03	mg/kg-day	7.0E-01	mg/kg-day	7.1E-03
				Manganese	3.4E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.1E-04	mg/kg-day	2.4E-02	mg/kg-day	4.4E-03
			Exp. Route Total								5E-06					3E-02
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	6.4E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	4.7E-08	1.8E-07	mg/kg-day	4.0E-02	mg/kg-day	4.5E-06
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.1E-07	4.4E-07	mg/kg-day	4.0E-02	mg/kg-day	1.1E-05
				Benzo(a)Pyrene	2.8E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	8.8E-07	3.4E-07	mg/kg-day	4.0E-02	mg/kg-day	8.5E-06
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	5.1E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	3.8E-08	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	3.6E-06
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	2.2E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.6E-07	6.3E-08	mg/kg-day	3.0E-02	mg/kg-day	2.1E-06
				C11-C22 Aromatics	2.2E+02	mg/kg	7.3E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.8E-04
				Total PCBs	2.8E-01	mg/kg	1.3E-08	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	2.6E-08	3.6E-08	mg/kg-day	2.0E-05	mg/kg-day	1.8E-03
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	7.5E-05	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	3.0E-04	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								1E-06					3E-03

TABLE C.4-7.7

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Intrusive Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Inhalation													
				Benzo(a)Anthracene	1.5E+00	mg/kg	8.6E-09	ug/m3	1.1E-04	(ug/m3)-1	9.4E-13	2.4E-11	mg/m3	N/A	N/A	N/A
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	2.1E-08	ug/m3	1.1E-04	(ug/m3)-1	2.3E-12	5.8E-11	mg/m3	N/A	N/A	N/A
				Benzo(a)Pyrene	2.8E+00	mg/kg	1.6E-08	ug/m3	1.1E-03	(ug/m3)-1	1.8E-11	4.5E-11	mg/m3	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	6.8E-09	ug/m3	1.1E-04	(ug/m3)-1	7.5E-13	1.9E-11	mg/m3	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	3.0E-09	ug/m3	1.1E-03	(ug/m3)-1	3.3E-12	8.4E-12	mg/m3	N/A	N/A	N/A
				C11-C22 Aromatics	2.2E+02	mg/kg	1.3E-06	ug/m3	N/A	N/A	N/A	3.5E-09	mg/m3	5.0E-02	mg/m3	7.1E-08
				Total PCBs	2.8E-01	mg/kg	1.6E-09	ug/m3	5.7E-04	(ug/m3)-1	9.2E-13	4.5E-12	mg/m3	N/A	N/A	N/A
				Chromium (VI)	3.2E+01	mg/kg	1.8E-07	ug/m3	8.4E-02	(ug/m3)-1	1.5E-08	5.2E-10	mg/m3	1.0E-04	mg/m3	5.2E-06
				Aluminum	1.3E+04	mg/kg	7.5E-05	ug/m3	N/A	N/A	N/A	2.1E-07	mg/m3	5.0E-03	mg/m3	4.2E-05
				Cobalt	8.4E+00	mg/kg	4.8E-08	ug/m3	9.0E-03	(ug/m3)-1	4.4E-10	1.4E-10	mg/m3	6.0E-06	mg/m3	2.3E-05
				Iron	1.6E+04	mg/kg	9.2E-05	ug/m3	N/A	N/A	N/A	2.6E-07	mg/m3	N/A	N/A	N/A
				Manganese	3.4E+02	mg/kg	2.0E-06	ug/m3	N/A	N/A	N/A	5.5E-09	mg/m3	5.0E-05	mg/m3	1.1E-04
			Exp. Route Total								2E-08					2E-04
		Exposure Point Total									6E-06					4E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Risks Across All Media	N/A

TABLE C.4-7.8

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface/Subsurface Soil	Hydro Property	Ingestion													
				Naphthalene	7E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.3E-05	mg/kg-day	2.0E-01	mg/kg-day	1.1E-04
				Benzo(a)anthracene	1E+01	mg/kg	3.0E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.2E-07	4.2E-05	mg/kg-day	4.0E-02	mg/kg-day	1.0E-03
				Chrysene	2E+01	mg/kg	3.9E-07	mg/kg-day	7.3E-03	mg/kg-day $^{-1}$	2.9E-09	5.5E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
				Benzo(b)fluoranthene	2E+01	mg/kg	4.2E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	3.0E-07	5.8E-05	mg/kg-day	4.0E-02	mg/kg-day	1.5E-03
				Benzo(k)fluoranthene	7E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	1.1E-08	2.1E-05	mg/kg-day	4.0E-02	mg/kg-day	5.2E-04
				Benzo(a)pyrene	1E+01	mg/kg	2.8E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	2.0E-06	3.9E-05	mg/kg-day	4.0E-02	mg/kg-day	9.7E-04
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	2.1E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.5E-07	2.9E-05	mg/kg-day	4.0E-02	mg/kg-day	7.3E-04
				Dibenz(a,h)anthracene	3E+00	mg/kg	6.0E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	4.4E-07	8.4E-06	mg/kg-day	3.0E-02	mg/kg-day	2.8E-04
				C11-C22 Aromatics	6E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.0E-03	mg/kg-day	3.0E-01	mg/kg-day	6.7E-03
				Total PCBs	2E-01	mg/kg	4.0E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	8.1E-09	5.7E-07	mg/kg-day	3.0E-05	mg/kg-day	1.9E-02
				Chromium (VI)	5E+01	mg/kg	1.2E-06	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	5.8E-07	1.6E-04	mg/kg-day	9.0E-03	mg/kg-day	1.8E-02
				Aluminum	1E+04	mg/kg	3.0E-04	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.1E-02	mg/kg-day	1.0E+00	mg/kg-day	4.1E-02
				Antimony	6E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.8E-05	mg/kg-day	4.0E-04	mg/kg-day	4.6E-02
				Arsenic	2E+01	mg/kg	4.2E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.2E-07	5.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cobalt	1E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	3.3E-05	mg/kg-day	3.0E-03	mg/kg-day	1.1E-02
				Iron	3E+04	mg/kg	7.1E-04	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.0E-01	mg/kg-day	7.0E-01	mg/kg-day	1.4E-01
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	9.4E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.3E-03	mg/kg-day	2.4E-02	mg/kg-day	5.5E-02
				Vanadium	6E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.1E-04	mg/kg-day	5.0E-03	mg/kg-day	4.2E-02
			Exp. Route Total								4E-06					6E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Naphthalene	7E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A $^{-1}$	N/A	8.8E-06	mg/kg-day	6.0E-01	mg/kg-day	1.5E-05
				Benzo(a)anthracene	1E+01	mg/kg	1.2E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	8.5E-08	1.6E-05	mg/kg-day	4.0E-02	mg/kg-day	4.1E-04
				Chrysene	2E+01	mg/kg	1.5E-07	mg/kg-day	7.3E-03	mg/kg-day $^{-1}$	1.1E-09	2.1E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Benzo(b)fluoranthene	2E+01	mg/kg	1.6E-07	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.2E-07	2.3E-05	mg/kg-day	4.0E-02	mg/kg-day	5.7E-04
				Benzo(k)fluoranthene	7E+00	mg/kg	5.8E-08	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	4.3E-09	8.2E-06	mg/kg-day	4.0E-02	mg/kg-day	2.0E-04
				Benzo(a)pyrene	1E+01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	7.9E-07	1.5E-05	mg/kg-day	4.0E-02	mg/kg-day	3.8E-04
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	5.9E-08	1.1E-05	mg/kg-day	4.0E-02	mg/kg-day	2.8E-04
				Dibenz(a,h)anthracene	3E+00	mg/kg	2.3E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.7E-07	3.3E-06	mg/kg-day	3.0E-02	mg/kg-day	1.1E-04
				C11-C22 Aromatics	6E+02	mg/kg	4.3E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	6.0E-04	mg/kg-day	3.0E-01	mg/kg-day	2.0E-03
				Total PCBs	2E-01	mg/kg	1.7E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	3.4E-09	2.4E-07	mg/kg-day	3.0E-05	mg/kg-day	7.9E-03
				Chromium (VI)	5E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	2.3E-04	mg/kg-day	N/A
				Aluminum	1E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	6E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	2E+01	mg/kg	3.7E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.6E-08	5.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cobalt	1E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	3.0E-03	mg/kg-day	N/A
				Iron	3E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Vanadium	6E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								1E-06					3E-02

TABLE C.4-7.8

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Inhalation													
				Naphthalene	7E+00	mg/kg	8.4E-09	ug/m3	3.4E-05	(ug/m3)-1	2.9E-13	1.2E-09	mg/m3	3.0E-03	mg/m3	3.9E-07
				Benzo(a)anthracene	1E+01	mg/kg	1.6E-08	ug/m3	1.1E-04	(ug/m3)-1	1.7E-12	2.2E-09	mg/m3	N/A	N/A	N/A
				Chrysene	2E+01	mg/kg	2.0E-08	ug/m3	1.1E-05	(ug/m3)-1	2.2E-13	2.9E-09	mg/m3	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+01	mg/kg	2.2E-08	ug/m3	1.1E-04	(ug/m3)-1	2.4E-12	3.0E-09	mg/m3	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E+00	mg/kg	7.8E-09	ug/m3	1.1E-04	(ug/m3)-1	8.6E-13	1.1E-09	mg/m3	N/A	N/A	N/A
				Benzo(a)pyrene	1E+01	mg/kg	1.4E-08	ug/m3	1.1E-03	(ug/m3)-1	1.6E-11	2.0E-09	mg/m3	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E+00	mg/kg	1.1E-08	ug/m3	1.1E-04	(ug/m3)-1	1.2E-12	1.5E-09	mg/m3	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E+00	mg/kg	3.1E-09	ug/m3	1.1E-03	(ug/m3)-1	3.4E-12	4.4E-10	mg/m3	N/A	N/A	N/A
				C11-C22 Aromatics	6E+02	mg/kg	7.4E-07	ug/m3	N/A	N/A	N/A	1.0E-07	mg/m3	5.0E-01	mg/m3	2.1E-07
				Total PCBs	2E-01	mg/kg	2.1E-10	ug/m3	5.7E-04	(ug/m3)-1	1.2E-13	2.9E-11	mg/m3	N/A	N/A	N/A
				Chromium (VI)	5E+01	mg/kg	6.0E-08	ug/m3	8.4E-02	(ug/m3)-1	5.1E-09	8.4E-09	mg/m3	3.0E-03	mg/m3	2.8E-06
				Aluminum	1E+04	mg/kg	1.5E-05	ug/m3	N/A	N/A	N/A	2.1E-06	mg/m3	5.0E-03	mg/m3	4.3E-04
				Antimony	6E+00	mg/kg	6.8E-09	ug/m3	N/A	N/A	N/A	9.6E-10	mg/m3	N/A	N/A	N/A
				Arsenic	2E+01	mg/kg	2.2E-08	ug/m3	4.3E-03	(ug/m3)-1	9.3E-11	3.0E-09	mg/m3	1.5E-05	mg/m3	2.0E-04
				Cobalt	1E+01	mg/kg	1.2E-08	ug/m3	9.0E-03	(ug/m3)-1	1.1E-10	1.7E-09	mg/m3	2.0E-05	mg/m3	8.7E-05
				Iron	3E+04	mg/kg	3.7E-05	ug/m3	N/A	N/A	N/A	5.2E-06	mg/m3	N/A	N/A	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	4E+02	mg/kg	4.9E-07	ug/m3	N/A	N/A	N/A	6.9E-08	mg/m3	1.5E-04	mg/m3	4.6E-04
				Vanadium	6E+01	mg/kg	7.8E-08	ug/m3	N/A	N/A	N/A	1.1E-08	mg/m3	N/A	N/A	N/A
			Exp. Route Total								5E-09					1E-03
		Exposure Point Total									6E-06					6E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	Northern Transmission Line Property	Ingestion													
				Benzo(a)Anthracene	8.5E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.4E-08	2.7E-06	mg/kg-day	4.0E-02	mg/kg-day	6.8E-05
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	2.7E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.9E-08	3.7E-06	mg/kg-day	4.0E-02	mg/kg-day	9.3E-05
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	1.0E-08	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	7.3E-10	1.4E-06	mg/kg-day	4.0E-02	mg/kg-day	3.5E-05
				Benzo(a)Pyrene	9.7E-01	mg/kg	2.2E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.6E-07	3.1E-06	mg/kg-day	4.0E-02	mg/kg-day	7.9E-05
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	1.1E-08	2.1E-06	mg/kg-day	4.0E-02	mg/kg-day	5.3E-05
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	2.3E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.7E-07	3.2E-06	mg/kg-day	3.0E-02	mg/kg-day	1.1E-04
				C11-C22 Aromatics	1.7E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	5.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.8E-03
				Total PCBs	3.1E+00	mg/kg	7.1E-08	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	1.4E-07	1.0E-05	mg/kg-day	3.0E-05	mg/kg-day	3.3E-01
				Chromium (VI)	8.8E+01	mg/kg	2.0E-06	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	1.0E-06	2.8E-04	mg/kg-day	9.0E-03	mg/kg-day	3.2E-02
				Aluminum	1.4E+04	mg/kg	3.2E-04	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.5E-02	mg/kg-day	1.0E+00	mg/kg-day	4.5E-02
				Antimony	1.4E+01	mg/kg	3.2E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.4E-05	mg/kg-day	4.0E-04	mg/kg-day	1.1E-01
				Arsenic	1.3E+01	mg/kg	2.9E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	4.4E-07	4.1E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
				Cobalt	1.2E+01	mg/kg	2.7E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	3.8E-05	mg/kg-day	3.0E-03	mg/kg-day	1.3E-02
				Copper	7.1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.3E-03	mg/kg-day	1.4E-02	mg/kg-day	1.6E-01
				Cyanide	4.9E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.6E-05	mg/kg-day	6.0E-03	mg/kg-day	2.6E-03
				Iron	4.5E+04	mg/kg	1.0E-03	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.4E-01	mg/kg-day	7.0E-01	mg/kg-day	2.1E-01
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.7E-03	mg/kg-day	2.4E-02	mg/kg-day	7.3E-02
				Mercury (inorganic)	9.5E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	3.1E-05	mg/kg-day	3.0E-03	mg/kg-day	1.0E-02
				Vanadium	4.8E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.5E-04	mg/kg-day	5.0E-03	mg/kg-day	3.1E-02
			Exp. Route Total								2E-06					1E+00

TABLE C.4-7.8
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	8.5E-01	mg/kg	7.6E-09	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	5.5E-09	1.1E-06	mg/kg-day	4.0E-02	mg/kg-day	2.7E-05
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	1.0E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	7.6E-09	1.5E-06	mg/kg-day	4.0E-02	mg/kg-day	3.6E-05
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-02	mg/kg-day $^{-1}$	2.8E-10	5.5E-07	mg/kg-day	4.0E-02	mg/kg-day	1.4E-05
				Benzo(a)Pyrene	9.7E-01	mg/kg	8.8E-09	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	6.4E-08	1.2E-06	mg/kg-day	4.0E-02	mg/kg-day	3.1E-05
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	5.9E-09	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	4.3E-09	8.2E-07	mg/kg-day	4.0E-02	mg/kg-day	2.0E-05
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	9.0E-09	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	6.6E-08	1.3E-06	mg/kg-day	3.0E-02	mg/kg-day	4.2E-05
				C11-C22 Aromatics	1.7E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.7E-04	mg/kg-day	3.0E-01	mg/kg-day	5.5E-04
				Total PCBs	3.1E+00	mg/kg	3.0E-08	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	6.0E-08	4.2E-06	mg/kg-day	3.0E-05	mg/kg-day	1.4E-01
				Chromium (VI)	8.8E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	2.3E-04	mg/kg-day	N/A
				Aluminum	1.4E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Antimony	1.4E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	6.0E-05	mg/kg-day	N/A
				Arsenic	1.3E+01	mg/kg	2.6E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.9E-08	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cobalt	1.2E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	3.0E-03	mg/kg-day	N/A
				Copper	7.1E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.4E-02	mg/kg-day	N/A
				Cyanide	4.9E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	6.0E-03	mg/kg-day	N/A
				Iron	4.5E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
				Mercury (inorganic)	9.5E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	2.1E-04	mg/kg-day	N/A
				Vanadium	4.8E+01	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	5.0E-03	mg/kg-day	N/A
			Exp. Route Total								2E-07					2E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Inhalation													
				Benzo(a)Anthracene	8.5E-01	mg/kg	1.0E-09	ug/m3	1.1E-04	(ug/m3)-1	1.1E-13	1.4E-10	mg/m3	N/A	N/A	N/A
				Benzo(b)Fluoranthene	1.2E+00	mg/kg	1.4E-09	ug/m3	1.1E-04	(ug/m3)-1	1.5E-13	1.9E-10	mg/m3	N/A	N/A	N/A
				Benzo(k)Fluoranthene	4.3E-01	mg/kg	5.2E-10	ug/m3	1.1E-04	(ug/m3)-1	5.7E-14	7.3E-11	mg/m3	N/A	N/A	N/A
				Benzo(a)Pyrene	9.7E-01	mg/kg	1.2E-09	ug/m3	1.1E-03	(ug/m3)-1	1.3E-12	1.6E-10	mg/m3	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6.5E-01	mg/kg	7.8E-10	ug/m3	1.1E-04	(ug/m3)-1	8.6E-14	1.1E-10	mg/m3	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1.0E+00	mg/kg	1.2E-09	ug/m3	1.1E-03	(ug/m3)-1	1.3E-12	1.7E-10	mg/m3	N/A	N/A	N/A
				C11-C22 Aromatics	1.7E+02	mg/kg	2.1E-07	ug/m3	N/A	N/A	N/A	2.9E-08	mg/m3	5.0E-01	mg/m3	5.8E-08
				Total PCBs	3.1E+00	mg/kg	3.7E-09	ug/m3	5.7E-04	(ug/m3)-1	2.1E-12	5.2E-10	mg/m3	N/A	N/A	N/A
				Chromium (VI)	8.8E+01	mg/kg	1.1E-07	ug/m3	8.4E-02	(ug/m3)-1	8.9E-09	1.5E-08	mg/m3	3.0E-03	mg/m3	4.9E-06
				Aluminum	1.4E+04	mg/kg	1.7E-05	ug/m3	N/A	N/A	N/A	2.3E-06	mg/m3	5.0E-03	mg/m3	4.7E-04
				Antimony	1.4E+01	mg/kg	1.7E-08	ug/m3	N/A	N/A	N/A	2.3E-09	mg/m3	N/A	N/A	N/A
				Arsenic	1.3E+01	mg/kg	1.5E-08	ug/m3	4.3E-03	(ug/m3)-1	6.5E-11	2.1E-09	mg/m3	1.5E-05	mg/m3	1.4E-04
				Cobalt	1.2E+01	mg/kg	1.4E-08	ug/m3	9.0E-03	(ug/m3)-1	1.3E-10	2.0E-09	mg/m3	2.0E-05	mg/m3	9.9E-05
				Copper	7.1E+02	mg/kg	8.5E-07	ug/m3	N/A	N/A	N/A	1.2E-07	mg/m3	1.0E-03	mg/m3	1.2E-04
				Cyanide	4.9E+00	mg/kg	5.9E-09	ug/m3	N/A	N/A	N/A	8.2E-10	mg/m3	2.0E-03	mg/m3	4.1E-07
				Iron	4.5E+04	mg/kg	5.4E-05	ug/m3	N/A	N/A	N/A	7.5E-06	mg/m3	N/A	N/A	N/A
				Lead	N/A	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Manganese	5.4E+02	mg/kg	6.5E-07	ug/m3	N/A	N/A	N/A	9.1E-08	mg/m3	1.5E-04	mg/m3	6.1E-04
				Mercury (inorganic)	9.5E+00	mg/kg	1.1E-08	ug/m3	N/A	N/A	N/A	1.6E-09	mg/m3	N/A	N/A	N/A
				Vanadium	4.8E+01	mg/kg	5.7E-08	ug/m3	N/A	N/A	N/A	8.0E-09	mg/m3	N/A	N/A	N/A
			Exp. Route Total								9E-09					1E-03
		Exposure Point Total									2E-06					1E+00

TABLE C.4-7.8
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)	South Bank Area	Ingestion													
				Benzo(a)Anthracene	1.5E+00	mg/kg	3.4E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.5E-08	4.8E-06	mg/kg-day	4.0E-02	mg/kg-day	1.2E-04
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	8.3E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	6.1E-08	1.2E-05	mg/kg-day	4.0E-02	mg/kg-day	2.9E-04
				Benzo(a)Pyrene	2.8E+00	mg/kg	6.5E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	4.7E-07	9.0E-06	mg/kg-day	4.0E-02	mg/kg-day	2.3E-04
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	2.7E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.0E-08	3.8E-06	mg/kg-day	4.0E-02	mg/kg-day	9.6E-05
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	1.2E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	8.8E-08	1.7E-06	mg/kg-day	3.0E-02	mg/kg-day	5.6E-05
				C11-C22 Aromatics	2.2E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	7.1E-04	mg/kg-day	3.0E-01	mg/kg-day	2.4E-03
				Total PCBs	2.8E-01	mg/kg	6.5E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	1.3E-08	9.0E-07	mg/kg-day	3.0E-05	mg/kg-day	3.0E-02
				Chromium (VI)	3.2E+01	mg/kg	7.4E-07	mg/kg-day	5.0E-01	mg/kg-day $^{-1}$	3.7E-07	1.0E-04	mg/kg-day	9.0E-03	mg/kg-day	1.1E-02
				Aluminum	1.3E+04	mg/kg	3.0E-04	mg/kg-day	N/A	N/A $^{-1}$	N/A	4.2E-02	mg/kg-day	1.0E+00	mg/kg-day	4.2E-02
				Cobalt	8.4E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.7E-05	mg/kg-day	3.0E-03	mg/kg-day	9.0E-03
				Iron	1.6E+04	mg/kg	3.7E-04	mg/kg-day	N/A	N/A $^{-1}$	N/A	5.2E-02	mg/kg-day	7.0E-01	mg/kg-day	7.4E-02
				Manganese	3.4E+02	mg/kg	7.8E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	1.1E-03	mg/kg-day	2.4E-02	mg/kg-day	4.6E-02
			Exp. Route Total								1E-06					2E-01
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Dermal													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	9.8E-09	1.9E-06	mg/kg-day	4.0E-02	mg/kg-day	4.7E-05
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	3.2E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	2.4E-08	4.5E-06	mg/kg-day	4.0E-02	mg/kg-day	1.1E-04
				Benzo(a)Pyrene	2.8E+00	mg/kg	2.5E-08	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	1.8E-07	3.5E-06	mg/kg-day	4.0E-02	mg/kg-day	8.8E-05
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	mg/kg-day $^{-1}$	7.8E-09	1.5E-06	mg/kg-day	4.0E-02	mg/kg-day	3.7E-05
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	mg/kg-day $^{-1}$	3.4E-08	6.5E-07	mg/kg-day	3.0E-02	mg/kg-day	2.2E-05
				C11-C22 Aromatics	2.2E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A $^{-1}$	N/A	2.1E-04	mg/kg-day	3.0E-01	mg/kg-day	7.1E-04
				Total PCBs	2.8E-01	mg/kg	2.7E-09	mg/kg-day	2.0E+00	mg/kg-day $^{-1}$	5.4E-09	3.8E-07	mg/kg-day	3.0E-05	mg/kg-day	1.3E-02
				Chromium (VI)	3.2E+01	mg/kg	N/A	N/A	2.0E+01	mg/kg-day $^{-1}$	N/A	N/A	N/A	2.3E-04	mg/kg-day	N/A
				Aluminum	1.3E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	1.0E+00	mg/kg-day	N/A
				Cobalt	8.4E+00	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	3.0E-03	mg/kg-day	N/A
				Iron	1.6E+04	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	7.0E-01	mg/kg-day	N/A
				Manganese	3.4E+02	mg/kg	N/A	N/A	N/A	N/A $^{-1}$	N/A	N/A	N/A	9.6E-04	mg/kg-day	N/A
			Exp. Route Total								3E-07					1E-02

TABLE C.4-7.8

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

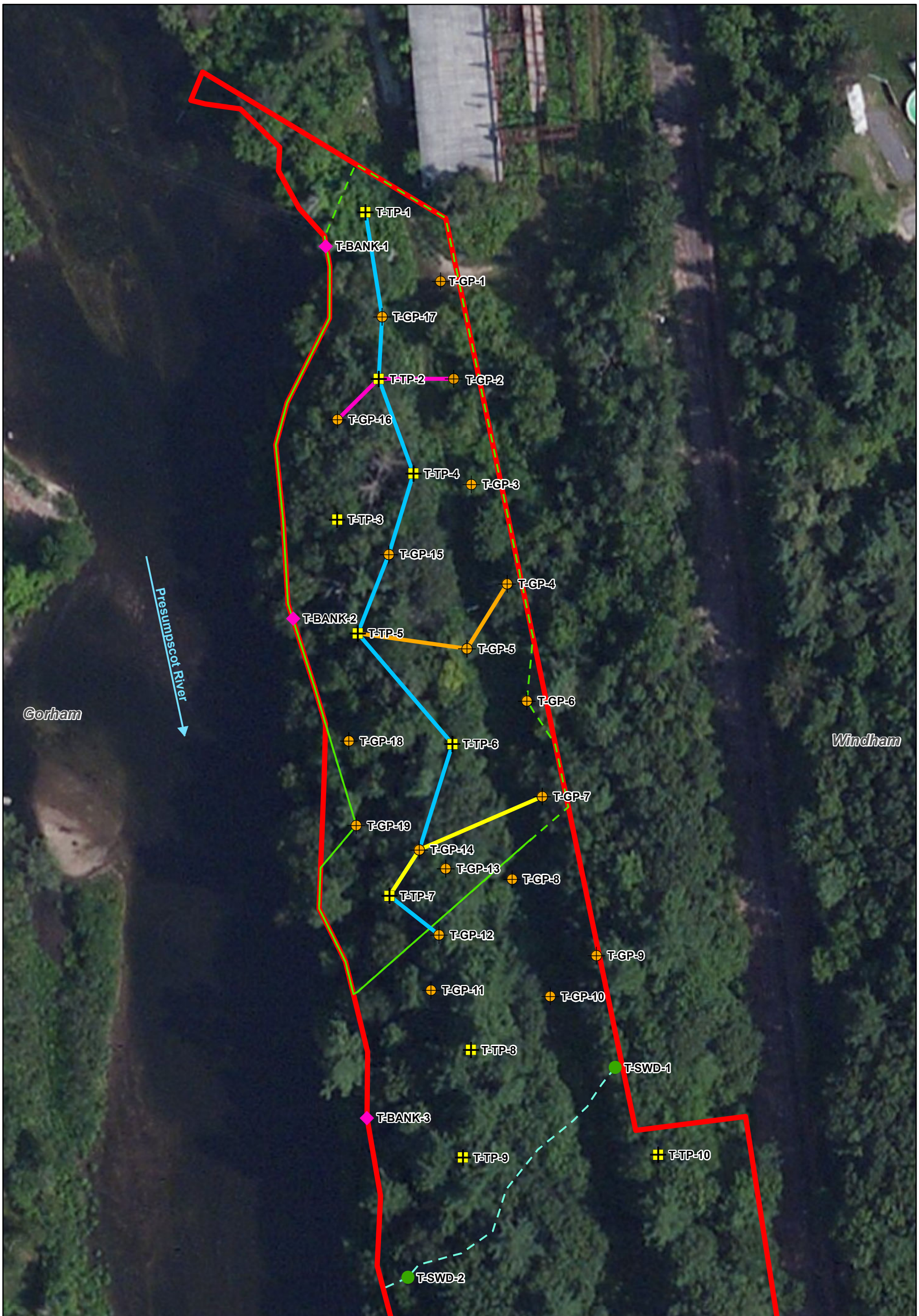
REASONABLE MAXIMUM EXPOSURE

Little Falls Site, Hydro & Transmission Line Property, Windham and Gorham, Maine

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (Cont.)	Surface/Subsurface Soil (Cont.)		Inhalation													
				Benzo(a)Anthracene	1.5E+00	mg/kg	1.8E-09	ug/m3	1.1E-04	(ug/m3)-1	2.0E-13	2.5E-10	mg/m3	N/A	N/A	N/A
				Benzo(b)Fluoranthene	3.6E+00	mg/kg	4.3E-09	ug/m3	1.1E-04	(ug/m3)-1	4.7E-13	6.0E-10	mg/m3	N/A	N/A	N/A
				Benzo(a)Pyrene	2.8E+00	mg/kg	3.4E-09	ug/m3	1.1E-03	(ug/m3)-1	3.7E-12	4.7E-10	mg/m3	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.4E-09	ug/m3	1.1E-04	(ug/m3)-1	1.6E-13	2.0E-10	mg/m3	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5.2E-01	mg/kg	6.2E-10	ug/m3	1.1E-03	(ug/m3)-1	6.9E-13	8.7E-11	mg/m3	N/A	N/A	N/A
				C11-C22 Aromatics	2.2E+02	mg/kg	2.6E-07	ug/m3	N/A	N/A	N/A	3.7E-08	mg/m3	5.0E-01	mg/m3	7.4E-08
				Total PCBs	2.8E-01	mg/kg	3.4E-10	ug/m3	5.7E-04	(ug/m3)-1	1.9E-13	4.7E-11	mg/m3	N/A	N/A	N/A
				Chromium (VI)	3.2E+01	mg/kg	3.8E-08	ug/m3	8.4E-02	(ug/m3)-1	3.2E-09	5.4E-09	mg/m3	3.0E-03	mg/m3	1.8E-06
				Aluminum	1.3E+04	mg/kg	1.6E-05	ug/m3	N/A	N/A	N/A	2.2E-06	mg/m3	5.0E-03	mg/m3	4.4E-04
				Cobalt	8.4E+00	mg/kg	1.0E-08	ug/m3	9.0E-03	(ug/m3)-1	9.1E-11	1.4E-09	mg/m3	2.0E-05	mg/m3	7.1E-05
				Iron	1.6E+04	mg/kg	1.9E-05	ug/m3	N/A	N/A	N/A	2.7E-06	mg/m3	N/A	N/A	N/A
				Manganese	3.4E+02	mg/kg	4.1E-07	ug/m3	N/A	N/A	N/A	5.7E-08	mg/m3	1.5E-04	mg/m3	3.8E-04
			Exp. Route Total								3E-09					9E-04
		Exposure Point Total									1E-06					2E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Risks Across All Media	N/A

APPENDIX D
Geologic Cross Sections, Northern Transmission Line Property



Approximate Property Boundary
Surface Water Drainage Sample Location
Riverbank Sample Location
Test Pit/Soil Sample Location
Geoprobe Boring/Soils Sample Location

Assumed Extent of Fill
Observed Extent of Fill
Surface Water Drainage Feature
Presumpscot River Flow Direction

Cross Section A-A'
Cross Section B-B'
Cross Section C-C'
Cross Section D-D'

N

Orthosphotography Source: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

0 50 100 Feet

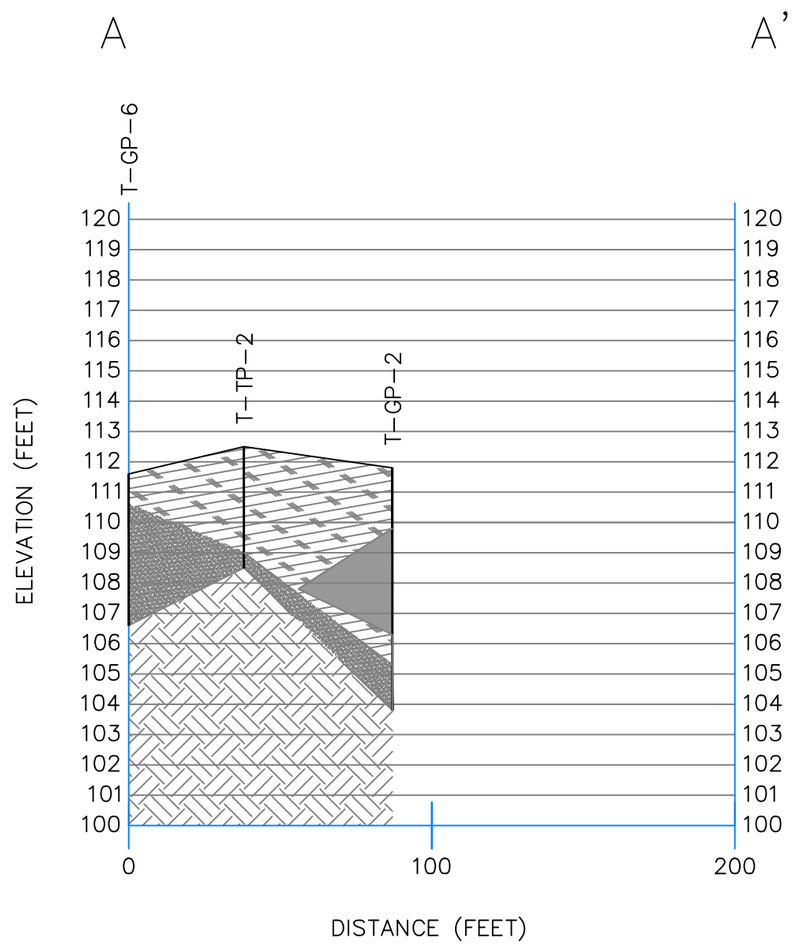
TRC
6 Ashley Drive
Scarborough, ME 04074

GEOLOGICAL CROSS SECTIONS OVERVIEW PLAN

TRANSMISSION LINE PROPERTY (NORTHERN THIRD)

WINDHAM, MAINE

APPENDIX D1 | Date: 5/3/2013



LEGEND:

- SURFACE GRADE
- FILL
- SILT
- SAND
- REFUSAL/BEDROCK

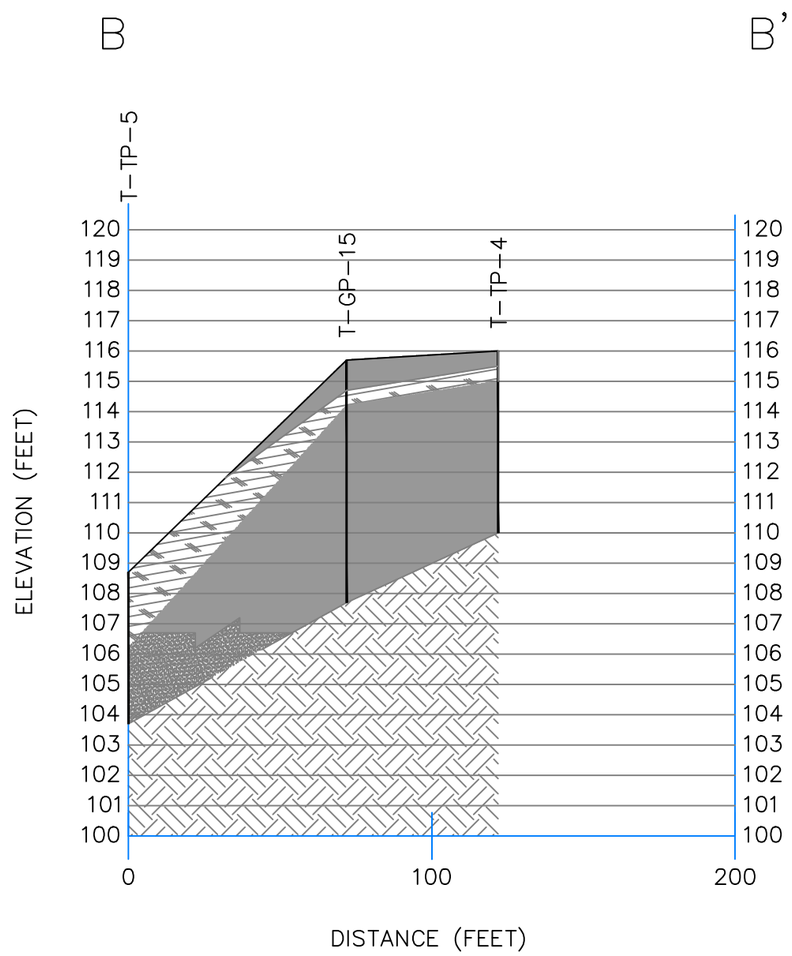
GEOLOGIC CROSS SECTION
A-A'
TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)
WINDHAM, ME

TRC 6 Ashley Drive Scarborough, ME 04074

DRAWN BY: AMW
CHECKED BY: CS
DATE: 05/03/2013

APPENDIX D2

FILE: S:\Projects\TRCAugusta\191981_Keddy_Mill\Output\2013\CAD\Geologic Cross Sections.dwg



LEGEND:

- SURFACE GRADE
- FILL
- SILT
- SAND
- REFUSAL/BEDROCK

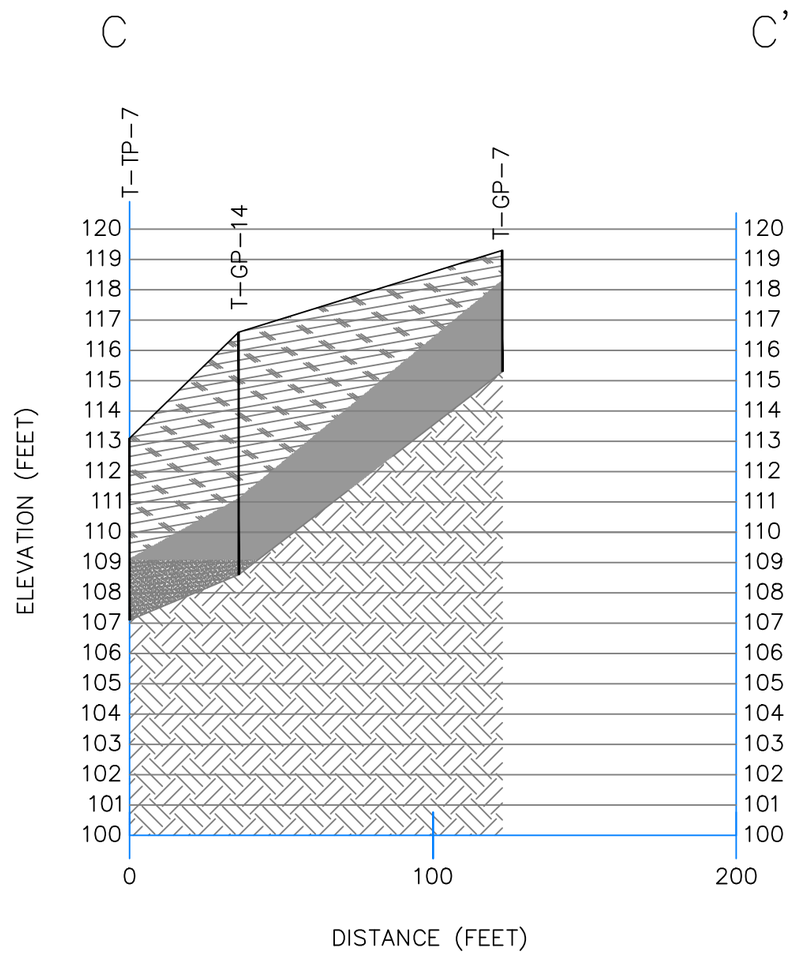
GEOLOGIC CROSS SECTION
B-B'
TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)
WINDHAM, ME

TRC 6 Ashley Drive Scarborough, ME 04074

DRAWN BY: AMW
CHECKED BY: CS
DATE: 05/03/2013

APPENDIX D3

FILE: S:\Projects\TRCAugusta\191981_Keddy_Mill\Output\2013\CAD\Geologic Cross Sections.dwg



LEGEND:

- SURFACE GRADE
- FILL
- SILT
- SAND
- REFUSAL/BEDROCK

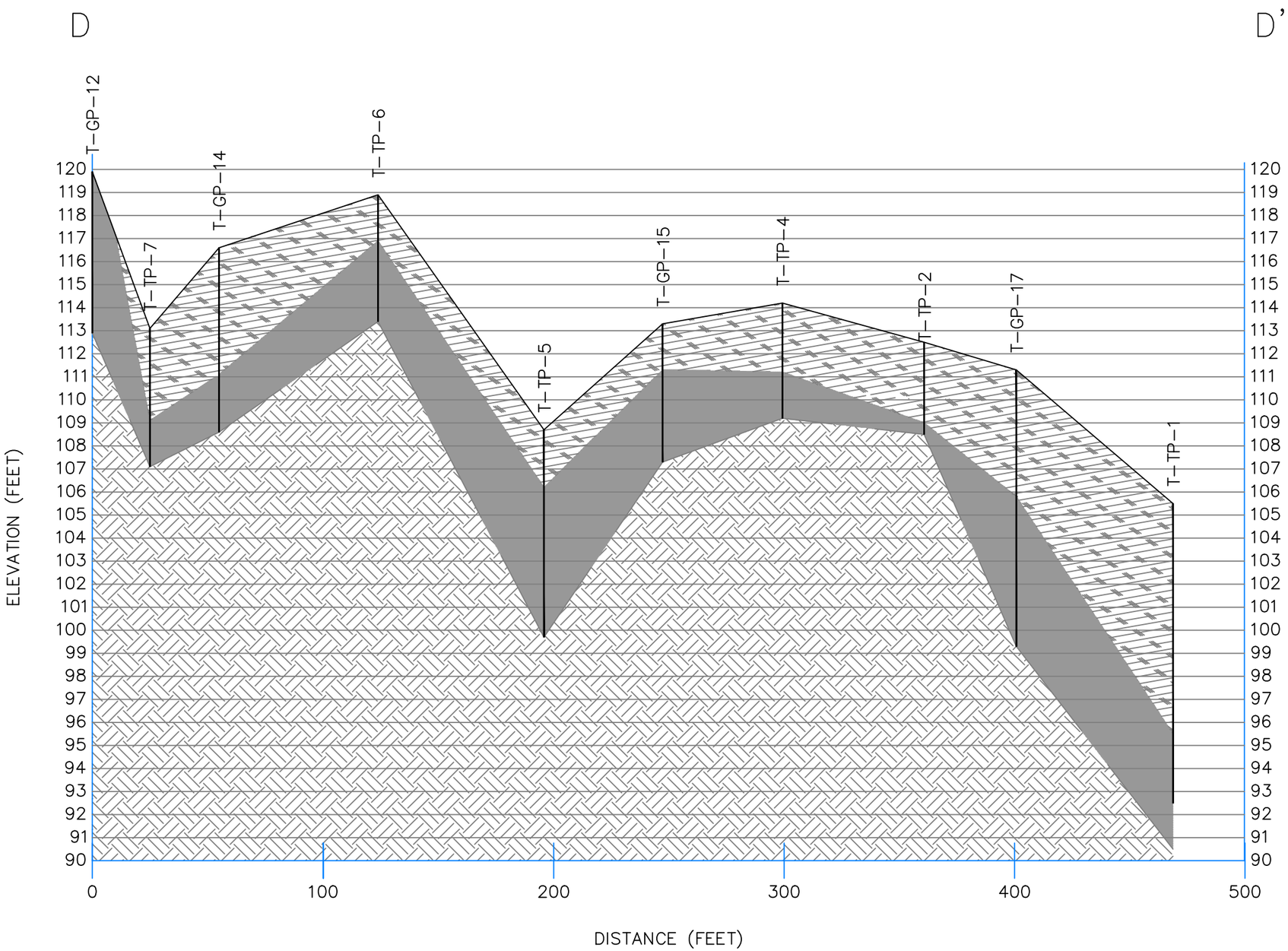
GEOLOGIC CROSS SECTION
C-C'
TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)
WINDHAM, ME

TRC 6 Ashley Drive Scarborough, ME 04074

DRAWN BY: AMW
CHECKED BY: CS
DATE: 05/03/2013

APPENDIX D4

FILE: S:\Projects\TRCAugusta\191981_Keddy_Mill\Output\2013\CAD\Geologic Cross Sections.dwg



LEGEND:

- SURFACE GRADE
- FILL
- SAND AND/OR SILT
- REFUSAL/BEDROCK

GEOLOGIC CROSS SECTION
D-D'
TRANSMISSION LINE PROPERTY
(NORTHERN THIRD)
WINDHAM, ME

TRC 6 Ashley Drive Scarborough, ME 04074

APPENDIX D5

DRAWN BY: AMW
CHECKED BY: CS
DATE: 05/03/2013

FILE: S:\Projects\TRC\Augusta\191981_Keddy_Mill\Output\2013\CAD\Geologic Cross Sections.dwg

APPENDIX E
Remedial Options Costing Backup

Job:	SAPPI Little Falls - Northern Transmission Property	Project No.:	191981		
Description:	Cost Estimate for 1.1 Acre Soil Cover	Computed by:	C.Race	Date:	5/29/13
		Checked by:	D.Andrews	Date:	5/31/13

This cost estimate is for a 1.1 acres soil cover. There is no site topography consideration however, visually, there appears to be a 15-30% slope from east to west across the site toward the river. A dirt access road forms the eastern boundary of the site as shown on the plan. The ground surface is lumpy due to fill deposition. fill includes of slag, coal, asphalt, metal shavings, brick, concrete, metal debris. Chemically, lead is the primary contaminant that exceeds MEDEP soil remediation standards. Note: This cost estimate is for comparative analysis only; a more detailed analysis would be required if this alternative is selected.

Reference: "A Guide to Developing and Documenting Cost estimates During Feasibility Studies" EPA 540-R-00-002, July 2000.

COST ESTIMATE

CAPITAL COSTS:

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
Mob and DeMob					
Mob and DeMob	1	LS	$10,000.00	$10,000	engineering experience
H&S Plan	1	LS	$2,500.00	$2,500	engineering experience
Permits etc	1	LS	$2,500.00	$2,500	
Element SUBTOTAL				$15,000	
Site Preparation/Drainage					
Clear, Grub and Strip	1.1	ac	$21,625.00	$23,788	
Diversion Ditch	300	feet	$75.00	$22,500	Along upper (east) side
Riprap downcomers	167	cyd	$75.00	$12,500	Length 75', width 10', stone depth 2' & geotextile
Element SUBTOTAL				$58,788	
Soil Cover					
Marker Layer	5324	syd	$1.00	$5,324	
Veg. Support Layer	2662	cyd	$25.00	$66,550	Assume 18" silty common borrow
Topsoil	887	cyd	$37.50	$33,275	Thickness = 6" includes lime/fert/seed and mulch
Element SUBTOTAL				$105,149	
CONSTRUCTION SUBTOTAL				$178,937	Sum of individual Elements
Contingency	20%			$35,787	
CONSTRUCTION and CONTINGENCY SUBTOTAL				$214,724	
Project Management	5%			$10,736	Ref. Exhibit 5-8 $100K-$500K
Remedial Design	15%			$32,209	Ref. Exhibit 5-8 $100K-$500K
Construction Management	10%			$21,472	Ref. Exhibit 5-8 $100K-$500K
Regulatory Compliance Permits				$35,000	Town Planning Board, DEP NRPA & Stormwater
TOTAL CAPITAL COST				$314,141	
COST RANGE %	30%		to	50%	Ref. Exhibit 2-3
COST RANGE $	$219,899		to	$471,211	

Job:	SAPPI Little Falls - Northern Transmission Property	Project No.:	191981		
Description:	Cost Estimate for 5,000 Square Foot RCRA Subtitle C Cap	Computed by:	C. Race	Date:	5/29/13
		Checked by:	D. Andrews	Date:	5/31/13

This cost estimate is for a 5,000 square foot RCRA Subtitle C Cap. There is no site topography. Visually, there appears to be a 15-30% slope from east to west across the site toward the river. A dirt access road forms the eastern boundary of the site as shown on the plan. The ground surface is lumpy due to fill deposition. Fill includes of slag, coal, asphalt, metal shavings, brick, concrete, metal debris. Note: This cost estimate is for comparative analysis only; a more detailed analysis would be required if this alternative is selected.

Reference: "A Guide to Developing and Documenting Cost estimates During Feasibility Studies" EPA 540-R-00-002, July 2000

COST ESTIMATE

CAPITAL COSTS:

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
Pre-Design Investigation					
TCLP Lead soil samples	20	ea	$100	$2,000	estimate
Labor + supplies	2	days	$1,400	$2,800	experience
Direct push rig	2	days	$1,400	$2,800	experience
Report	1	ea	$4,000	$4,000	experience
Element SUBTOTAL				$11,600	
Mob and Demob					
Mob and Demob	1	LS	$10,000.00	$10,000	engineering experience
H&S Plan	1	LS	$2,500.00	$2,500	engineering experience
Permits	1	LS	$2,500.00	$2,500	estimate
Element SUBTOTAL				$15,000	
Site Preparation/Drainage					
Clear, Grub and Strip	0.115	ac	$21,625.00	$2,487	estimate
Diversion Ditch	100	feet	$75.00	$7,500	along upper (east) side
Riprap downcomers	167	cyd	$75.00	$12,500	Length 75', witdth 10 feet, stone depth 2' with geotextile
Element SUBTOTAL				$22,487	
RCRA SubTitle C Cap					
Base Layer	278.30	cyd	$20.00	$5,566	Ave. 1.5 feet common borrow/top 6" 1" minus
Barrier Layer	5259.87		$1.00	$5,260	Assume 40 mil Textured HDPE geomembrane +5% waste
Drainage Layer	5259.87		$1.00	$5,260	Assume Bi-planer Geocomposite Drain Net
Veg. Support Layer	278.30	cyd	$25.00	$6,958	Assume 18" silty common borrow
Topsoil	92.77	cyd	$37.50	$3,479	Thickness = 6" includes lime/fert/seed and mulch
Element SUBTOTAL				$26,522	
Appurtances					
Perimeter Fence	300	lf	$20	$6,000	Estimate
Element SUBTOTAL				$6,000	
	CONSTRUCTION SUBTOTAL			$81,609	Sum of individual Elements
Contingency	20%			$16,322	
CONSTRUCTION and CONTINGENCY SUBTOTAL				$97,931	
Project Management	5%			$4,897	Ref. Exhibit 5-8 $100K-$500K
Remedial Design	15%			$14,690	Ref. Exhibit 5-8 $100K-$500K
Construction Management	10%			$9,793	Ref. Exhibit 5-8 $100K-$500K
Regulatory Compliance Permits				$35,000	Town Planning Board, DEP NRPA & Stormwater
	TOTAL CAPITAL COST			$162,310	
COST RANGE %		30%	to	50%	Ref. Exhibit 2-3
COST RANGE $		$113,617	to	$243,465	

Job:	SAPPI Little Falls - Northern Transmission Property	Project No.:	191981		
Description:	Cost Estimate for Lead Hot Spot Chemical Stabilization	Computed by:	C. Race	Date:	5/29/13
		Checked by:	D. Andrews	Date:	5/31/13

This cost estimate is for chemical stabilization of a soil lead hot spot. Hot spot volume (approximately 732 cu. yds.) is estimated based on existing soil lead data greater than 2000 mg/kg lead and assumed to be disposed as hazardous waste. There is no site topography. Visually, there appears to be a 15-30% slope from east to west across the site toward the river. A dirt access road forms the eastern boundary of the site as shown on the plan. The ground surface is lumpy due to fill deposition. Fill includes of slag, coal, asphalt, metal shavings, brick, concrete, metal debris. Note: This cost estimate is for comparative analysis only; a more detailed analysis would be required if this alternative is selected.

Reference: "A Guide to Developing and Documenting Cost estimates During Feasibility Studies" EPA 540-R-00-002, July 2000

COST ESTIMATE

CAPITAL COSTS:

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
Pre-Design Investigation					
TCLP Lead soil samples	20	ea	$100	$2,000	estimate
Labor + supplies	2	days	$1,400	$2,800	experience
Direct push rig	2	days	$1,400	$2,800	experience
Report	1	ea	$4,000	$4,000	experience
Element SUBTOTAL				$11,600	
Mob and Demob					
Mob and DeMob	1	LS	$10,000.00	$10,000	engineering experience
H&S Plan	1	LS	$2,500.00	$2,500	
Permitting	1	LS	$2,500.00	$2,500	
Element SUBTOTAL				$15,000	
Site Preparation/Drainage					
Clear, Grub and Strip	0.117	ac	$21,625.00	$2,530	
Diversion Ditch	0	feet	$75.00	$0	Along upper (east) side
Riprap downcomers	0	cyd	$75.00	$0	Ave length 75', witdth 10 feet, stone depth 2' with geotextile
Element SUBTOTAL				$2,530	
Chemical Stabilization					
Soil Excavation	731.74	cy	$8	$5,854	
Reagent	731.74	cy	$30	$21,952	
Mixing and handling	731.74	cy	$25	$18,294	
Field oversight	10	day	$1,400	$14,000	
Monitoring equipment	2	week	$1,000	$2,000	
Confirmatory sampling	20	tests	$200	$4,000	
Element SUBTOTAL				$66,100	

Volumes Depth	area (sq. ft.)	vol (cu. ft)	vol (cu. yds)
0-2 ft	2287	8711	**322.63**
>2 ft	3075	11046	**409.11**
Total		**19757**	**731.74**

Reagent cost per Robert Stanforth., Jan. 2013

CONSTRUCTION SUBTOTAL		$95,230	Sum of individual Elements
Contingency	20%	$19,046	
CONSTRUCTION and CONTINGENCY SUBTOTAL		$114,276	
Project Management	5%	$5,714	
Remedial Design	15%	$17,141	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Construction Management	10%	$11,428	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Regulatory Compliance Permits		$35,000	Town Planning Board, DEP NRPA & Stormwater
TOTAL CAPITAL COST		$183,558	
COST RANGE %	30% to	50%	Ref. Exhibit 2-3
COST RANGE $	$128,491 to	$275,338	

Ballpark Range: $170,000 - $200,000

Note: Annual maintenance not included

Job:	SAPPI Little Falls - Northern Transmission Property	Project No.:	191981		
Description:	Cost Estimate for Lead Hot Spot Removal	Computed by:	C. Race	Date:	5/29/13
		Checked by:	D. Andrews	Date:	5/31/13

This cost estimate is for lead hot spot removal and backfill with clean materials. Hot spot volume (approximately 732 cu. yds.) estimated based on existing soil lead data greater than 2000 mg/kg lead and assumed to be disposed as hazardous waste. There is no site topography. Visually, there appears to be a 15-30% slope from east to west across the site toward the river. A dirt access road forms the eastern boundary of the site as shown on the plan. The ground surface is lumpy due to fill deposition. Fill includes of slag, coal, asphalt, metal shavings, brick, concrete, metal debris. Note: This cost estimate is for comparative analysis only; a more detailed analysis would be required if this alternative is selected.

Reference: "A Guide to Developing and Documenting Cost estimates During Feasibility Studies" EPA 540-R-00-002, July 2000

COST ESTIMATE

CAPITAL COSTS:

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
Pre-Design Investigation					
TCLP Lead soil samples	20	ea	$100	$2,000	estimate
Labor + supplies	2	days	$1,400	$2,800	experience
Direct push rig	2	days	$1,400	$2,800	experience
Report	1	ea	$4,000	$4,000	experience
Element SUBTOTAL				$11,600	
Mob and Del Demob					
Mob and DeMob	1	LS	$10,000.00	$10,000	engineering experience
Permits	1	LS	$2,500.00	$2,500	engineering experience
H&S Plan	1	LS	$2,500.00	$2,500	engineering experience
Element SUBTOTAL				$15,000	
Site Preparation					
Clear, Grub and Strip	0.115	ac	$21,625.00	$2,487	Estimate
Element SUBTOTAL				$2,487	
Hot Spot Removal, Disposal, Backfill					
Soil Excavation, stockpiling, loading	731.74	cyd	$25	$18,294	Estimate
Soil Disposal as Hazardous	1024	tons	$255	$261,231	Enpro
Backfill with clean fill	731.74	cyd	$25	$18,294	1.4 tons/cyd
Confirmation Soil Samples	40	each	$120	$4,800	TCLP lead
Element SUBTOTAL				$302,618	
Soil Cover					
Topsoil	93	cyd	$37.50	$3,479	Thickness = 6" includes lime/fert/seed and mulch
Element SUBTOTAL				$3,479	

Volumes Depth	area (sq. ft.)	vol (cu. ft)	vol (cu. yds)
0-2 ft	2287	8711	**322.63**
>2 ft	3075	11046	**409.11**
Totals:		**19757**	**731.74**

Transport & Disposal to Horizon Facility in Canada ($90/ton haz+$60/ton ME Haz Waste Fee+$105 transport) ENPRO Mary Hannon 1/24/13 verbal

CONSTRUCTION SUBTOTAL		$335,184.11	Sum of individual Elements
Contingency	20%	$67,037	
CONSTRUCTION and CONTINGENCY SUBTOTAL		$402,221	
Project Management	5%	$20,111	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Remedial Design	15%	$60,333	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Construction Management	10%	$40,222	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Regulatory Compliance Permits		$35,000	Town Planning Board, DEP NRPA & Stormwater
TOTAL CAPITAL COST		$557,887.21	
COST RANGE %	30% to	50%	Ref. Exhibit 2-3
COST RANGE $	$390,521 to	$836,831	

Ballpark Range: $550-650K

Note: Annual maintenance not included

Job:	SAPPI Little Falls - Northern Transmission Property	Project No.:	191981		
Description:	Cost Estimate for Hot Spot Removal, Soil Cover	Computed by:	C. Race	Date:	5/29/13
		Checked by:	D. Andrews	Date:	5/31/13

This estimate is for lead hot spot removal and construction of a 1.1 acre soil cover. There is no site topography. Visually, there appears to be a 15-30% slope from east to west across the site toward the river. A dirt access road forms the eastern boundary of the site as shown on the plan. The ground surface is lumpy due to fill deposition. Fill includes of slag, coal, asphalt, metal shavings, brick, concrete, metal debris. Hot spot volume (approximately 732 cu. yds.) estimated based on existing soil lead data greater than 2000 mg/kg lead and assumed to be disposed as hazardous waste. Note: This cost estimate is for comparative analysis only; a more detailed analysis would be required if this alternative is selected.

Reference: "A Guide to Developing and Documenting Cost estimates During Feasibility Studies" EPA 540-R-00-002, July 2000

COST ESTIMATE

CAPITAL COSTS:

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
Pre-Design Investigation					
TCLP Lead soil samples	20	ea	$100	$2,000	estimate
Labor + supplies	2	days	$1,400	$2,800	experience
Direct push rig	2	days	$1,400	$2,800	experience
Report	1	ea	$4,000	$4,000	experience
Element SUBTOTAL				$11,600	
Mob and DeMob					
Mob and DeMob	1	LS	$25,000.00	$25,000	engineering experience
H&S Plan	1	LS	$2,500.00	$2,500	engineering experience
Element SUBTOTAL				$27,500	
Site Preparation/Drainage					
Clear, Grub and Strip	1.1	ac	$21,625.00	$23,788	
Diversion Ditch	300	feet	$75.00	$22,500	Along upper (east) side
Riprap downcomers	167	cyd	$75.00	$12,500	Ave length 75', witdth 10 feet, stone depth 2' with geotextile
Element SUBTOTAL				$58,788	
Hot Spot Removal, Disposal, Backfill					
Soil Excavation, stockpiling, loading	731.74	cyd	$25	$18,294	
Soil Disposal as Hazardous	1024	tons	$255	$261,231	
Backfill with clean fill	731.74	cyd	$25	$18,294	1.4 tons/cyd
Element SUBTOTAL				$297,818	
Soil Cover					
Veg. Support Layer	2662	cyd	$25.00	$66,550	Assume 18" silty common borrow
Topsoil	887	cyd	$37.50	$33,275	Thickness = 6" includes lime/fert/seed and mulch
Element SUBTOTAL				$99,825	

Volumes Depth	area (sq. ft.)	vol (cu. ft)	vol (cu. yds)
0-2 ft	2287	8711	**322.63**
>2 ft	3075	11046	**409.11**
total		**19757**	**731.74**

Transport & Disposal to Horizon Facility in Canada ($90/ton haz+$60/ton ME Haz Waste Fee+$105 transport) ENPRO Mary Hannon 1/24/13 verbal

CONSTRUCTION SUBTOTAL		$495,530.98	Sum of individual Elements
Contingency	20%	$99,106	
CONSTRUCTION and CONTINGENCY SUBTOTAL		$594,637	
Project Management	5%	$29,732	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Remedial Design	15%	$89,196	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Construction Management	10%	$59,464	Ref. Exhibit 5-8 $100K-$500K excludes disposal coat
Regulatory Compliance Permits		$35,000	Town Planning Board, DEP NRPA & Stormwater
TOTAL CAPITAL COST		$808,028.33	
COST RANGE %	30% to	50%	Ref. Exhibit 2-3
COST RANGE $	$565,620 to	$1,212,042	

Ballpark Range: $750,000 - $950,000

Note: Annual maintenance not included

APPENDIX F
Basis for Site Remediation and Applicable or Relevant and Appropriate Requirements

APPENDIX F
BASIS FOR SITE REMEDIATION AND APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs)

1.0 INTRODUCTION

This discussion presents a summary of Applicable or Relevant and Appropriate Requirements (ARARs) for developing remedial alternatives for the Little Falls site in Windham and Gorham, ME. Although this remedial action is being conducted under the Voluntary Remedial Action Plan Program, and the cleanup is not being administered or overseen by the U.S. Environmental Protection Agency under federal law, it is still useful to consider the approach followed under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

The media of concern for the Site is soil, as groundwater was not encountered in any borings or test pits advanced during the Phase II investigation, and a receptor survey for potential groundwater users identified none either between the site and the river or in close proximity. Also, Leaching to Groundwater Guidelines were not exceeded for contaminants identified in soil, indicating that impacted soil remaining at the site is unlikely to be a source of impact to groundwater. The site-specific baseline Human Health Assessment determined that the site cancer and non-cancer risks are below risk management criteria for the scenarios evaluated at the northern and southern portions of the Transmission Line Property, with the exception of exposure to lead contaminated soil by future workers conducting intensive or lengthy construction projects ("Long-Term Construction Worker"). Accordingly, it is appropriate to consider ARARs that apply to soil and not groundwater impacts.

Preliminary Remediation Goals (PRGs) are to provide acceptable contaminant levels or range of levels for each exposure route. The results of the human health risk assessment indicate that for current and future land use scenarios, where future use is expected to be the same as current use, the site poses no unacceptable risk for all current and future receptors, with the exception of the future Long-Term Construction Worker. Considering 1) the only receptor that is at risk is the future Long-Term Construction Worker, 2) exposures by the future construction worker receptor could be controlled using institutional controls to prevent long-term construction projects, and 3) no unacceptable risks were estimated for the likely activities conducted by intrusive workers at this area of the Site (assuming 24 days of exposure per year for 25 years), a risk-based PRG was not developed for this site. However, since the potential exists for future excavation activities, a concentration of 2,000 mg/kg was selected for one of the remedial alternatives (Option A in section 8.3 on Remedial Alternatives), as a means to manage soil below the TCLP hazardous waste criteria if excavation activities occurred in the future in the area where such levels would be encountered. (Soils that exceed TCLP criteria, but that are undisturbed and left in place, are not addressed by RCRA since disposal took place before Sappi purchased the property in the early 1970s, unless they are excavated and managed.)

2.0 DEFINITION OF ARARS

CERCLA (as amended by the 1986 Superfund Amendments and Reauthorization Act), and the National Contingency Plan (NCP) both require that ARARs be identified during the Remedial

Investigation and Feasibility Study (RI/FS) process. Under CERCLA, ARARs are federal and state human health and environmental requirements and guidelines that will be used to: 1) evaluate the appropriate extent of site cleanup; 2) define and formulate remedial action alternatives; and 3) govern implementation and operation of the selected action.

To properly consider ARARs and to clarify their function in the RI/FS and remedial response processes, the NCP defines three ARAR components: 1) applicable requirements; 2) relevant and appropriate requirements and, 3) other requirements to be considered (TBCs). These definitions are discussed in the following paragraphs.

Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site, and are applicable as a matter of law. These include federal requirements that are directly applicable, as well as those incorporated by a federally authorized state program.

Relevant and appropriate requirements are those cleanup standards, standards of control, or other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a Site, address problems or situations sufficiently similar to those encountered at the site that their use is well-suited to the particular site. There is more discretion in this determination in that it is possible for only part of a requirement to be considered relevant and appropriate, the rest being dismissed if judged not to be relevant and appropriate in a given case.

Other requirements to be considered are non-promulgated advisories or guidance issued by the federal or state government that are not legally binding, and do not have the status of potential ARARs. However, if there are no specific ARARs for a chemical or site condition, or if existing ARARs are not deemed sufficiently protective, then guidance or advisory criteria should be identified and used to confirm protection of human health and the environment.

Development of a comprehensive inventory of ARARs involves a two-tiered analysis: establishing the applicability of an environmental regulation; and evaluating relevancy and appropriateness if the regulation is not applicable as a matter of law. A requirement may be either "applicable" or "relevant and appropriate," but not both.

3.0 IDENTIFICATION OF POTENTIAL ARARS

Because of their site-specific nature, identification of ARARs requires evaluation of the body of federal, state, and local environmental and health regulations with respect to chemicals of concern, site characteristics, and proposed remedial alternatives. Requirements that pertain to the remedial response at a CERCLA site can be categorized into three distinct types listed and summarized below:

- chemical-specific,
- location specific and
- action-specific.

Chemical-specific ARARs are numerical values or procedures that, when applied to a specific site, establish numerical limits for individual chemicals or groups of chemicals. These ARARs are generally health- or risk-based standards limiting the concentration of a chemical found in or discharged to the environment. They govern the extent of site remediation by providing either actual cleanup levels, or the basis for calculating such levels.

Location-specific ARARs represent restrictions placed on the concentration of hazardous substances or the conduct of activities relative to natural site features (e.g., wetlands, water bodies, floodplains, sensitive ecosystems).

Action-specific ARARs, unlike chemical-specific and location-specific ARARs, are technology- or activity-based requirements that direct how remedial actions are conducted. The applicability of this set of requirements is directly related to the particular remedial activities proposed for the site. Table F-1 identifies federal and state requirements that may pertain to components of each of the remedial alternatives developed for the site and presented in Section 8.

Federal and State of Maine ARARs considered for each remedial alternative is presented below and on Table F-1.

4.0 POTENTIAL CHEMICAL-SPECIFIC ARARS

Federal Regulatory Requirements

Regional Screening Levels (USEPA, 2013)
USEPA's Regional Screening Levels are criteria established for the purpose of identifying chemicals at a site that require further evaluation. As they are not promulgated, they are a requirement that is to be considered. The exceedances of the RSLs at this site indicate that additional evaluation is required. That evaluation occurred, and resulted in the human health risk assessment and development of remedial alternatives for evaluation. The results of the human health risk assessment indicate that for current and future land use scenarios, where future use is expected to be the same as current use, the site poses no unacceptable risk for all current and future receptors, with the exception of the future long-term construction worker. All remedial options eliminate or reduce exposure via soil removal, capping and/or the placement of an Environmental Covenant on the property restricting exposures.

Clean Water Act
The Clean Water Act regulates the discharge of pollutants from point sources to waters of the United States. This requirement was determined not to be applicable to the site as no point sources discharge to either the Presumpscot River or other waters of the United States (e.g., wetlands).

State of Maine

Remedial Action Guidelines

The State of Maine Remedial Action Guidelines are risk-based contaminant cleanup levels that may be used as remedial goals for a site as an alternative to evaluating risk and developing remediation goals site-specifically. A site-specific human health risk assessment was conducted at this site. The results indicate that for current and future land use scenarios, where future use is expected to be the same as current use, the site poses no unacceptable risk for all current and future receptors, with the exception of the future long-term construction worker. All remedial options eliminate or reduce exposure via soil removal, capping and/or the placement of an Environmental Covenant on the property restricting exposures.

Surface Water Quality Criteria (06-096 CMR Chapters 520-530)

The State of Maine regulates discharges of pollutants to waters of the state, whether direct or indirect, and has developed ambient water quality criteria for various toxics including lead. Left alone on an erosive riverbank, impacted soils are expected to eventually become undermined and slough off into the river. The effects of this discharge are unknown and dependent upon the rate of discharge, the flood stage of the river and other factors. In fact, the timing of this activity occurring is speculative. Periodic inspections would be conducted under this option to look for changes in site conditions.

5.0 POTENTIAL LOCATION-SPECIFIC ARARS

Federal Regulatory Requirements

Wetland Executive Order (Executive Order 11990), 40 C.F.R. Part 6, Appendix A

The Wetlands Executive Order requires federal agencies to minimize the destruction, loss, or degradation of wetlands, and preserve and enhance natural and beneficial values of wetlands. Activity in wetlands is prohibited unless there is no practical alternative. Under this requirement, no activity that adversely affects a wetland shall be permitted if a practicable alternative is available. A wetlands survey was conducted at the site, and no wetlands were identified in the area where remedial activities will occur. Therefore, this requirement was not considered applicable. However, Alternatives A and B include disturbance of site soils; therefore, if wetlands are identified during remedial activities proposed under these alternatives, then this requirement would be applicable. In that case, all practicable measures will be taken to minimize and mitigate adverse impacts to those wetlands. Analysis will be undertaken to see if there is a practical alternative to impacts on wetlands. If there is no practical alternative, then efforts will be taken to minimize impacts.

Protection of Floodplains (Executive Order 11988); 40 C.F.R. Part 6:302, Appendix A

The Floodplains Management Executive Order requires federal agencies to avoid the adverse impacts associated with the occupancy and modification of floodplains. If a federal agency determines that an activity will take place within a floodplain, the agency shall consider alternatives to avoid adverse effects and incompatible development in the floodplains.

This requirement was determined to not be applicable to the site as remedial activities will take place outside of the 100-year floodplain.

US Army Corps of Engineers Permit

A US Army Corps of Engineers permit is required for activities taking place within 750 feet of a vernal pool or within a wetland. Vernal pools and wetlands were not identified at the site; therefore, this requirement is not applicable. Alternatives A and B include soil disturbance activities. If wetlands are identified during remedial activities proposed under either of these alternatives, a permit may be required, depending on the location of the vernal pool (i.e., remedial activities within 750 feet of a vernal pool) or wetland (i.e., remedial activities within a wetland.

State of Maine Regulatory Requirements

Maine Natural Resources Protection Act (NRPA, 38 M.R.S.A. §§ 480-A to 480-Z)

Wetland Rules, Permit By Rule Standards (06-096 C.M.R. Chapters 305 & 310)

The Natural Resources Protection Act outlines requirements and performance standards for certain activities in, on, over, or adjacent to freshwater wetlands, streams, ponds, or brooks. Chapters 305 and 310 implement requirements under this Act. The activities must not unreasonably interfere with certain natural features, such as natural flow or quality of any waters, nor harm significant aquatic habitat, freshwater fisheries, or other aquatic life. Remedial activities proposed under Alternatives A and B will take place within 75 feet of the Presumpscot River; therefore, a permit will be required under NRPA.

Town of Windham Shoreland Zoning Ordinance

This Ordinance also applies to any land use activity in, on, or above any freshwater wetland, great pond, river, stream or brook, and that may have an effect on the above or operates in a manner that causes material or soil to be washed into them. This Ordinance applies to all land areas within 250 feet, horizontal distance, of the normal high-water line of any great pond, or river; within 250 feet, horizontal distance, of the upland edge of a freshwater wetland; and within 100 feet, horizontal distance, of the normal high-water line of a stream, or as shown on the official Shoreland Zoning Map.

This ordinance applies to Remedial Alternatives A and B, which include activities within 250 feet of the Presumpscot River, requiring a permit.

6.0 POTENTIAL ACTION-SPECIFIC ARARS

Federal Regulatory Requirements

Resource Conservation and Recovery Act (RCRA) - Identification and Listing of Hazardous Wastes, Management of Hazardous Waste (40 C.F.R. 260-265)

Part 260-261 Defines those wastes that are subject to regulations as hazardous wastes under 40 C.F.R. Parts 264-265. This requirement is applicable to Alternative A, which includes the excavation of lead-impacted soil that would be characterized as hazardous waste if excavated for off-site disposal. Under this alternative, the transport and disposal of the lead-impacted soil will comply with RCRA requirements. Note that this requirement does not apply to Alternatives B and C, which do not include excavation of soil. Because hazardous waste may not be placed in unconsolidated soils under RCRA, the relevant and appropriate "requirement" would be an on-site land disposal unit (a landfill) meeting the standards of 40 C.F.R. Part 264, subpart N, or non-placement (removal).

State of Maine Regulatory Requirements

Rules for Hazardous Waste (06-096 C.M.R. Chapters, 850-857)

These rules regulate the safe management, transportation and disposal of hazardous wastes in the State of Maine. This requirement is applicable to Alternative A, which includes the excavation of lead-impacted soil that would be characterized as hazardous waste if excavated for off-site disposal. Under this alternative, the transport and disposal of the lead-impacted soil will comply with the requirements of these rules. Note that this requirement does not apply to Alternatives B and C, which do not include excavation of soil. Note that the Land Disposal Restrictions Rule (Chapter 852) does not apply to this site. Because hazardous waste may not be placed in unconsolidated soils under RCRA, the relevant and appropriate "requirement" would be an on-site land disposal unit (a landfill) meeting the standards of Chapter 854, or non-placement (removal).

Erosion and Sedimentation Control (38 M.R.S.A., Subsec. 420-C)

This law requires that a person who conducts an activity involving filling, displacing or exposing earthen materials take measures to prevent unreasonable erosion of soil or sediment beyond the project site or into a protected natural resource. This requirement is applicable to Alternatives A and B, which include soil disturbance activities. Remedial activities conducted under these alternatives will comply with this law.

Chapter 500, Stormwater Management Rules

This rule requires that a project meet appropriate standards to prevent and control the release of pollutants to water bodies, wetlands, and groundwater, and reduce impacts associated with increases and changes in flow. This rule applies to Alternatives A and B, which include the disturbance of over 1 acre of land. Therefore, a General Permit for Construction Activities will be required.

Table F-1

Applicable, Relevant and Appropriate Requirement Analysis

	ARAR Determination	Alternative A: Limited Removal / Soil Cover / Environmental Covenant	Alternative B: Soil Cover / Environmental Covenant	Alternative C: Environmental Covenant	No Action Alternative	Comments
CHEMICAL-SPECIFIC		No Action				
Federal						
USEPA Regional Screening Levels	TBC	Will meet	Will meet	Will meet	**Will not meet**	Alternatives A, B, C: These alternatives restrict or eliminate exposure to impacted soil resulting in no unacceptable risks No Action: Unacceptable risks are identified for the future construction worker receptor exposed to surface and subsurface soil
Clean Water Act	Not Applicable	NA	NA	NA	NA	No point source discharges will occur.
State of Maine						
Remedial Action Guidelines	TBC	Will meet	Will meet	Will meet	**Will not meet**	Alternatives A, B, C: These alternatives restrict or eliminate exposure to impacted soil resulting in no unacceptable risks. No Action: This alternative does not eliminate exposure to impacted surface and subsurface soil with chemical concentrations above RAGs.
Surface Water Quality Criteria for Toxic Pollutants (06-096 C.M.R. Chapter 854)	TBC	Will meet	Will meet	May not meet	May not meet	Alternatives A,B - will remove or cover impacted soils and require ongoing maintenance. Alternatives C and No Action may allow future erosion and potential discharges to occur which may exceed criteria.
LOCATION-SPECIFIC ARARs						
Federal						
Wetland Executive Order (E011990), 40 CFR Part 6, Appendix A	Not Applicable unless wetlands identified within area designated for remediation	NA	NA	NA	NA	No wetlands were identified in the impacted area of the site. If wetlands are encountered and activities are taken that impact them, all practicable measures will be taken to minimize and mitigate adverse impacts to those wetlands.
Floodplains Management Executive Order 11988; 40 C.F.R. Part 6.302, Appendix A.	Not Applicable	NA	NA	NA	NA	Alternatives A, B: Remedial activities at the site will occur outside of the 100-year floodplain.
US Army Corps of Engineers Permit	Not Applicable unless wetlands identified within area designated for remediation	NA	NA	NA	NA	Wetlands and vernal pools were not identified during the site surveys; therefore, not applicable unless wetlands or vernal pools are identified at the site. In this case, a US Army Corps of Engineers permit may be required, depending on location of wetlands/vernal pools.
State of Maine						
Maine Natural Resources Protection Act (NRPA, 38 M.R.S.A. §§ 480-A to 480-Z)	Applicable	Will meet	Will meet	Will meet	Will meet	Alternatives A, B: Remedial activities at the site will occur within the 75-foot buffer along the Presumpscot River, requiring a permit under NRPA.
Wetlands and Waterbodies Protection and Permit By Rule Standards (06-096 C.M.R. Chapters 305 and 310)	Applicable	Will meet	Will meet	Will meet	Will meet	Alternatives A, B: Site is located within 75 feet of the Presumpscot River and subject soils are within this area, requiring a permit under NRPA.
Town of Windham Shoreland Zoning Ordinance	Applicable	Will meet	Will meet	Will meet	Will meet	Alternatives A and B: Alternative A will disturb more than 10 cubic yards within 250 feet of the Presumpscot River; Alternative B may disturb more than 10 cubic yards of soil within 250 feet of the Presumpscot River. The requirements of the Shoreline Zoning Ordinance will be complied with as part of the permit application process.
ACTION-SPECIFIC ARARs						
Federal						
Resource Conservation and Recovery Act, 40 CFR 261	Applicable	Will meet	Will meet	Will meet	Will meet	RCRA applies only to lead-impacted soil classified as characteristic waste that is excavated (i.e., generated) for off-site disposal. Soil classified as hazardous waste will be taken to an appropriate hazardous waste landfill.
State of Maine						
Rules for Hazardous Waste (06-096 C.M.R. Chapters 850-857).	Applicable	Will meet	Will meet	Will meet	Will meet	Alternative A: Excavated soil classified as hazardous waste will be transported to an licensed hazardous waste landfill in accordance with these rules. Alternatives B, C, No Action: Soil is not considered hazardous waste if left in-place (i.e., not generated).
Erosion and Sedimentation Control (38 M.R.S.A., Subsec. 420-C)	Applicable	Will meet	Will meet	NA	NA	Alternatives A, B: Appropriate erosion and sediment controls will be put in place to prevent erosion during implementation of the remedy. Alternative C and No Action Alternative: No activity that involves filling, displacing or exposing soil will occur; therefore, not applicable.
Chapter 500, Stormwater Management Rules	Applicable	Will meet	Will meet	NA	NA	Alternatives A, B: If these alternative result in the disturbance of 1 acre or more of land, the remedies will comply with the General Permit - Construction Activity. Alternative C and No Action: No action will be taken; therefore, not applicable