REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT
FOR THE
LEBLANC CLEANERS SITE
LEWISTON, androscoggin COUNTY, MAINE
27 APRIL THROUGH 29 APRIL 2016

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-S3-15-01

TO/TDD NO. TO1-01-16-02-0003

TASK NO. 0091

DC NO. R-00213

Submitted By:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team IV (START)
3 Riverside Drive
Andover, MA 01810

July 2016

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I. Preliminary Assessment/Site Investigation Forms

REMOVAL PRELIMINARY ASSESSMENT

EPA REGION I
REMOVAL PRELIMINARY ASSESSMENT

Site Name and Location

Name: LeBlanc Cleaners **Location:** 10 Lafayette Street
Town: Lewiston **County:** Androscoggin **State:** Maine

Site Status: **( ) NPL** **( ) NON-NPL** **( ) RCRA** **( ) TSCA**
( ) ACTIVE **(X) ABANDONED** **( ) OTHER**

(X) Attached USGS Map of Location **(X) Site I.D. No.:** 01ZZ

Latitude: 44 º 6 ′ 6.2″ North **Longitude:** 70º 11′ 49.1″ West

Referral

( ) Citizen **( ) City/Town** **(X) State** **( ) Preremedial** **( ) RCRA**
( ) Other:

Name of referring party: Maine Department of Environmental Protection (ME DEP)
Telephone: (207) 287-7800
Address: 12 State House Station, Augusta, Maine, 04333

Contacts Identified
1) Jason Fish **Telephone:** (207) 287-8426
2)

Source of Information

( ) Verbal:
(X) Report: Maine Department of Environmental Protection, Bureau of Remediation and Waste Management. 14 September 2015. *Notice of Violation.*

CES, Inc. 2015. *Dry Cleaner Initiative Phase II Environmental Site Assessment LeBlanc's Cleaners | 10 Lafayette Street | Lewiston, Maine*. October.

Ransom Consulting, Inc. 2015. *Phase I Environmental Site Assessment Report*. 4 May.

(X) Other: Information provided by EPA On-Scene Coordinator (OSC) Marcus Holmes.

REMOVAL PRELIMINARY ASSESSMENT

Potential Responsible Parties

Owner: Alfred LeBlanc **Telephone:** (207) 783-2244
Address: PO Box 1236, Auburn, ME
Operator: **Telephone:** ( )
Address:

Site Access

Authorizing Person: Alfred LeBlanc
Date: 4 March 2016 **(X) Obtained** **( ) Verbal**
Telephone: ( ) **( ) Not Obtained** **(X) Written**

Historical Preservation

( ) Site is Historically Significant or Eligible for Historic Preservation

Contacts Identified

1) State Historical Preservation Officer (SHPO)
Name: Kirk F. Mohney **Telephone:** (207) 287-3811
2) Tribal Historical Preservation Officer (THPO)
Name: **Telephone:**( )

Comments:

Physical Site Characterization

Background Information: The LeBlanc Cleaners site is located at 10 Lafayette Street, Lewiston, Androscoggin County, Maine (ME). The geographic coordinates, as measured from the entrance to the property, are 44° 6' 6.2" north latitude and 70° 11' 49.1" west longitude. The site is comprised of a 5,292 square-foot (ft^2) rectangular building, a 972 ft^2 storage shed, and parking areas situated on a 0.24 acre parcel. The site is bordered to the northwest by St. Mary's Hospital and St. Mary's Medical Center, to the northeast and southwest by residential properties, and to the southeast by Lafayette Street and residential properties. The site is currently developed with a brick building constructed on a concrete slab-on-grade foundation with a flat, steel roof. The boiler room section of the main site building was constructed in the early 1900s. The main site building includes the boiler room, a dry-cleaning operations room, a bathroom, an office, and a reception area. A rectangular-shaped storage shed, constructed with wood floors and metal walls, is located on the southwestern portion of the site.

Around 1914 the site was developed with a wagon repair shop, steam dye facility, and dry cleaning operation. The main site building with the more current dry cleaning operations was constructed on the site circa 1955. At that time, the site operated one dry cleaning unit which utilized tetrachloroethene (PCE) as the primary dry cleaning solvent. According to the property

owner, the original dry cleaning machine was vented to the exterior on the western side of the site building. The original dry cleaning unit and associated vent pipe remain on the site but have not operated since the early 1970s. An additional Renzacci dry cleaning unit that was in use since the 1970s until 2014 utilized PCE throughout its operations. Dry cleaning operations ceased in November 2014, and used filters, pre filter lint, and spent solvents from the Renzacci dry cleaning machine remain on site.

The boiler room in the southwestern section of the site building contains two 275-gallon oil aboveground storage tanks (AST), a boiler unit, and an air compressor unit. The AST contains heating oil for the space furnace to heat the building and heating oil for the boiler units which provided steam formerly used by the dry cleaning and drying units. The dry-cleaning section of the site building has concrete floors except for the reception area, where 12-inch vinyl floor tiles were placed over the concrete floor. The office space in this section of the building is carpeted. It is possible that the floor tiles and/or carpet may be covering certain features of the original floors, such as stained areas. The dry cleaning room has a ceiling-mounted oil-fired space heater as well as an air compressor located on the southeastern wall.

In April 2015, Maine Department of Environmental Protection (MEDEP) hired Ransom Consulting, Inc. to conduct a Phase I Environmental Site Assessment. Ransom contracted Environmental Data Resources (EDR) to conduct a search of federal and state databases containing known and suspected sites of environmental contamination. The site was identified by EDR under databases including Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (RCRA-CESQG), Facility Index System/Facility Registry System (FINDS), EDR United States Historical Cleaners, United States Aerometric Information Retrieval System (AIRS), and Underground Injection Control (UIC) Site. According to information contained in the EDR report, the site was identified as a U.S. EPA Hazardous Waste Site for disposal of small quantities of halogenated solvent materials associated with the former dry cleaning operation, including tetrachloroethylene. Several violations were reported in connection with the site's listing as a RCRA CESQG.

As part of the Phase I ESA, a Vapor Encroachment Assessment (VEA) was performed in general accordance with American Society for Testing and Materials (ASTM) International Standard E2600-10. Based on the operation of the site property as a dry cleaning facility using "Perc" from at least 1955 until 2014, a Vapor Encroachment Condition (VEC) cannot be ruled out. If contaminants have impacted subsurface conditions at the site, these contaminants would have the potential to migrate in soil vapor to surrounding properties through preferential pathways such as the municipal utility trenches. These contaminants could then impact indoor air conditions through vapor intrusion to surrounding structures.

In July through September 2015, MEDEP hired CES, Inc. to conduct a Phase II Environmental Site Assessment. A total of eight soil borings were collected from which five were completed as temporary monitoring wells and groundwater monitoring samples. The groundwater sample collected from the monitoring well MW-05 was reported to contain total xylenes [3,700 micrograms per Liter (µg/L)] and naphthalene [330 µg/L] above the Remedial Action Guidelines (RAGs) for Groundwater for both Residential and Construction Worker scenarios toluene, ethylbenzene, acetone, n-butylbenzene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene were reported above the laboratory detection

limit. The groundwater sample collected from monitoring well MW-08 was reported to contain trichloroethene (320 µg/L) above the RAGs for Groundwater Construction Worker. Tetrachloroethene, vinyl chloride, trans-1,2-dichloroethene and cis-1,2-dichloroethene were reported above the laboratory detection limit. Several volatile organic compounds (VOCs) were detected in the groundwater sample from the monitoring wells MW-03 and MW-07 and were reported above the laboratory detection limit.

Surficial soil sample from SS-07 [0-2' below ground surface (bgs)] did not detect volatile compounds at concentrations above the RAGs for Residential and Commercial Worker scenarios. However, the concentration of tetrachloroethene was detected above the laboratory detection limits. No other VOC compounds were detected from the sample collected. Subsurface soil samples from boring B-02 (6-8' bgs), B-05 (0-4' bgs), and B-08 (0-2' bgs) did not detect any compounds at concentrations above the RAGs for Construction Worker scenarios. However, concentration of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene were detected above the laboratory detection limits. Soil gas samples were reported to contain volatile organic compounds (1,1-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, and cis-1,2-dichloroethene), which were detected in soil gas sample locations (SV-01, SV-02, SV-03, SV-04, SV-08, SV-09, SV-10 and SV-12) above the laboratory detection limit

Several volatile organic compounds (trans-1,2-dichloroethene, cis-1,2-dichloroethene, and 1,1,1-trichloroethene) were detected in the sub slab soil gas sample locations (SSV-01, SSV- 02, and SSV-03) above the laboratory detection limit. The RAGs are not directly comparable to subslab soil gas samples. Therefore, an attenuation factor was applied to these samples prior to comparison. Applying this attenuation factor to the reported results, the concentrations of trans-1,2-dichloroethene, cis-1,2-dichloroethene, trichloroethene and tetrachloroethene for SSV-01 and trichloroethene and tetrachloroethene for SSV-02 and SSV-03 were greater than 10 times the Indoor Air for commercial settings.

The air sample collected from inside the facility (IA-1) reported concentrations of tetrachloroethene above the RAGs for the Indoor Air Commercial applications. Although several detections were identified, no other VOC compounds were identified exceeding the Indoor Air for commercial settings.

Description of Substances Possibly Present, Known or Alleged: Analytical results of groundwater and subsurface soil samples indicated elevated levels of VOCs (tetrachloroethene, trichloroethylene, total xylenes, and naphthalene)

Existing Analytical Data

( ) Real-Time Monitoring Data:

REMOVAL PRELIMINARY ASSESSMENT

(X) Sampling Data: Analytical results from the Phase II Environmental Site Assessment, conducted by CES Inc. on 29 October 2015 for ME DEP.

Potential Threat

Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.

iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

vi. Threat of fire or explosion.

vii. The availability of other appropriate federal or state response mechanisms to respond to the release.

viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Prior Response Activities

( ) PRP (X) STATE ( ) FEDERAL ( ) OTHER

Brief Description: In April 2015, Ransom Consulting, Inc. conducted a Phase I Environmental Site Assessment (ESA) of the site for ME DEP. The site reconnaissance included observations of the property grounds for evidence of releases, or potential releases of oil and/or hazardous materials (OHM), or a material threat of releases of OHM.

In July through September 2015, CES Inc. conducted a Phase II ESA for ME DEP. The Phase II ESA was completed to identify the potential for dry cleaner-related issues affecting the site and adjacent properties.

REMOVAL PRELIMINARY ASSESSMENT

Priority for Site Investigation

(X) High **( ) Medium** **( ) Low** **( ) None**
Comments:

Report Generation

Originator:	Andrew Danikas	**Date:**	2 May 2016
Affiliation:	Weston Solutions (START)	**Telephone:**	(978) 621-8658
TDD No.:	TO1-01-16-02-0003	**Task No.:**	0091

EPA REGION I
REMOVAL SITE INVESTIGATION

Inspection Information

Site Name: LeBlanc Cleaners **Address:** 10 Lafayette Street
Town: Lewiston **County:** Androscoggin **State:** Maine

Date of Inspection: 27 April 2016 **Time of Inspection:** 0730 - 1730 hours
Date of Inspection: 28 April 2016 **Time of Inspection:** 0730 - 1730 hours
Date of Inspection: 29 April 2016 **Time of Inspection:** 0730 - 1330 hours

Weather Conditions: 27 April 2016 - 55° Fahrenheit, Sunny, Breezy
28 April 2016 - 55° Fahrenheit, Sunny, Breezy
29 April 2016 - 55° Fahrenheit, Sunny, Breezy

Site Status at Time of Inspection: **( ) ACTIVE (X) INACTIVE**
Comments: The site is an abandoned dry cleaning facility.

Agencies/Personnel Performing Inspection

	Names	Program
(X) EPA:	Marcus Holmes	U.S. Environmental Protection Agency (EPA) Region I Emergency Planning and Response Branch (EPRB) On-Scene Coordinators (OSC).
(X) EPA Contractor:	Andrew Danikas Eric Ackerman Christine Dupree Ken Robinson	Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team III (START).
(X) State:	Ted Wolfertz	Maine Department of Environmental Protection (ME DEP), Division of Remediation.

Current Owner Based on Field Interview: Alfred LeBlanc

REMOVAL SITE INVESTIGATION

Physical Site Characteristics

Parameter		Quantities/Extent
( ) Cylinders:		
(X) Drums:		There are numerous drums/containers inside the building containing waste oils, detergents, sodium hydroxide, potassium hydroxide, hydrogen peroxide, boiler water additives, and various solvents including tetrachloroethylene.
( ) Lagoons:		
(X) Tanks:	**(X) Above:**	The boiler room contains two 275-gallon heating oil aboveground storage tanks.
	(X) Below:	There is an underground storage tank below the driveway. The size and contents are currently unknown.
( ) Asbestos:		
( ) Piles:		
( ) Stained Soil:		
( ) Sheens:		
( ) Stressed Vegetation:		
( ) Landfill:		
(X) Population in Vicinity:		The site is located in a mixed residential/commercial area that is heavily populated.
( ) Wells:	**( ) Drinking:**	
	( ) Monitoring:	
(X) Other:		The property is abutted to the southwest, southeast and northeast by residential properties and by St. Mary's Regional Medical Center to the northwest.

Physical Site Observations

The site is comprised of a 5,292 square-foot (ft^2) rectangular building, a 972 ft^2 storage shed, and parking areas situated on a 0.24 acre parcel. The site is bordered to the northwest by St. Mary's Hospital and St. Mary's Medical Center, to the northeast and southwest by a residential property, and to the southeast by Lafayette Street and residential property. The site is currently developed with a brick building constructed on a concrete slab-on-grade foundation with a flat, steel roof. The boiler room section of the main site building was constructed in the early 1900s. The main site building includes the boiler room, a dry-cleaning operations room, a bathroom, an office, and a reception area. A rectangular-shaped storage shed is located on the western portion of the site, and is constructed with wooden floors and metal walls. The topography in the area surrounding the site generally slopes downward to the north, towards Jepson Brook.

Field Sampling and Analysis

Matrix/Analytical Parameter		Field Instrumentation				
		CGI/O_2	**RAD**	**PID**	**FID**	**Other**
Background Readings:		0%/20.9%	10-15 µR/Hour	0.0 ppm		
Air:		0%/20.9%	10-15 µR/Hour	0.0 ppm		
Soil:		0%/20.9%	10-15 µR/Hour	0.0 ppm		
Subsurface soil:		0%/20.9%	10-15 µR/Hour	485 ppm		
Drums:		0%/20.9%	10-15 µR/Hour	>999 ppm		
Sub-slab vapor		0%/20.9%	10-15 µR/Hour	48 ppm		

ppm = parts per million.

Field Quality Control Procedures

(X) SOP Followed **( ) Deviation From SOP**

Comments: START personnel conducted field activities in accordance with the document, entitled *Sampling and Analysis Plan for the LeBlanc Cleaners Site, Lewiston, Androscoggin County, Maine, April 2016.*

Description of Sampling Conducted

START personnel utilized a mounted concrete core drill to remove a 3-inch diameter concrete core from the concrete floor in order to advance Geoprobe® macrocores with an electric jackhammer. Soil borings were collected from locations selected by the OSC. The mounted concrete core drill was not used for soil borings located outside of the building. START collected a total of 50 subsurface soil samples from 10 borings (SB-01 through SB-10) from locations inside and outside of the building. Five borings were advanced to a depth of 4 feet (ft) below ground surface (bgs), one boring was advanced to a depth of 6 feet bgs, three borings were advanced to a depth of 7 feet bgs, and one boring was advanced to a depth of 8 feet bgs. START collected 11 surface soil samples (SS-01 through SS-11) from locations along the perimeter of the site as selected by the OSC. In addition, START personnel installed five sub-slab vapor ports inside the building from which five sub-slab vapor samples (SG-01 through SG-05) were collected. START collected five drum product samples (DP-01 through DP-05) from drums/containers inside the building. Lastly, START collected one air sample from a floor drain inside the boiler room and one air sample from a storm drain located in the parking lot.

The subsurface soil and surface soil samples were screened in the field for volatile organic compounds (VOCs) and metals using the EPA Mobile Laboratory. The sub-slab vapor samples were screened in the field for VOCs using the EPA Mobile Laboratory. The sub-slab vapor

samples for field analysis were collected in 1-Liter Tedlar® bags using dedicated tubing and a peristaltic pump to evacuate the soil gas from the sampling port.

The subsurface soil, surface soil, sub-slab vapor samples, storm drain, floor drain air samples, and drum product samples were also submitted for confirmatory VOC and semivolatile organic compound (SVOC) analyses to the EPA Office of Environmental Measurement and Evaluation (OEME) laboratory located in North Chelmsford, Massachusetts. Approximately 10% of the surface and subsurface soil samples were submitted for confirmatory metals analysis at the EPA OEME laboratory.

Analyses

Analytical Parameter	Media	Laboratory
(X) VOC	**(X) AIR**	**(X) NERL**
( ) PCB	**(X) WATER**	**( ) CLP**
( ) PESTICIDE	**(X) SOIL**	**( ) PRIVATE**
(X) METALS	**(X) SOURCE**	**( ) DAS**
( ) CYANIDE	**( ) SEDIMENT**	**( ) SOW**
(X) SVOC	**(X) SOIL GAS**	**(X) FIELD**
( ) TOXICITY		
( ) DIOXIN		
( ) ASBESTOS		
( ) OTHER		

Receptors

Comments

( ) Drinking Water:

(X) Private: According to the Maine Geological Survey's online well database one private drinking water well (205 Webster Street) is located within 2,500 feet of the site.

(X) Groundwater: Previous sample results indicated that the groundwater on site has been impacted by previous dry cleaning activities. Groundwater flow direction, based on previous depth-to-groundwater data, is generally west towards the Androscoggin River located approximately 1 mile west of the site. Based on the most recent groundwater elevation data collected in July 2015, groundwater beneath the site area ranges from approximately 4.61 ft to 9.22 ft bgs.

REMOVAL SITE INVESTIGATION

(X) Unrestricted Access: There are no access restrictions to the site; the site building is locked, but can be accessed via several large open/broken windows.

(X) Population in Proximity: The site is located in a heavily populated residential area.

(X) Sensitive Ecosystem: The Androscoggin River is located approximately 1 mile west of the site. Jepson Brook is located a half mile east of the site.

Additional Procedures for Site Determination

( ) Biological Evaluation **( ) ATSDR**

To be determined by the On-Scene Coordinator (OSC).

Site Determination

Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.

iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

vi. Threat of fire or explosion.

vii. The availability of other appropriate federal or state response mechanisms to respond to the release.

viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Report Generation

Originator:	Andrew Danikas	**Date:**	4 May 2016
Affiliation:	Weston Solutions (START)	**Telephone:**	(978) 621-8658
TDD No.:	TO1-01-16-02-0003	**Task No.:**	0091

II. Narrative Chronology

Narrative Chronology

Site Description

The LeBlanc Cleaners site (the site) is located at 10 Lafayette Street, Lewiston, Androscoggin County, Maine (ME) (see Appendix A, Figure 1) [1, 2]. The geographic coordinates, as measured from the entrance to the property, are 44° 6' 6.2" north latitude and 70° 11' 49.1" west longitude. The site is comprised of a 5,292 square-foot (ft^2) rectangular building, a 972 ft^2 storage shed, and parking areas situated on a 0.24 acre parcel. The site is bordered to the northwest by St. Mary's Hospital and St. Mary's Medical Center, to the northeast and southwest by a residential property, and to the southeast by Lafayette Street and residential property. The site is currently developed with a brick building constructed on a concrete slab-on-grade foundation with a flat, steel roof. The boiler room section of the main site building was constructed in the early 1900s. The main site building includes the boiler room, a dry-cleaning operations room, a bathroom, an office, and a reception area. A rectangular-shaped storage shed is located on the western portion of the site, and is constructed with wooden floors and metal walls (see Appendix A, Figure 2) [2].

Site Background

Around 1914 the site was developed with a wagon repair shop, steam dye facility, and dry cleaning operation. The main site building with the more current dry cleaning operations was constructed on the site circa 1955. At that time, the site operated one dry cleaning unit which utilized tetrachloroethylene (PCE) as the primary dry cleaning solvent. According to the property owner, the original Renzacci dry cleaning machine was vented to the exterior on the western side of the site building. The original dry cleaning unit and associated vent pipe remain on the site but have not operated since the early 1970s. An additional Renzacci dry cleaning unit that was in use since the 1970s until 2014 utilized PCE throughout its operation. Dry cleaning operations ceased in November 2014, and used filters, pre filter lint, and spent solvents from the Renzacci dry cleaning machines are currently stored in the unoccupied building [3].

The boiler room on the southwestern section of the site contains two 275-gallon oil aboveground storage tanks (AST), a boiler unit, and an air compressor unit. The AST contains heating oil for the space furnace to heat the building and heating oil for the boiler units which provided steam formerly used by the dry cleaning and drying units. The dry-cleaning section of the site building has concrete floors except for in the reception area, where 12-inch vinyl floor tiles were placed over the concrete floor. The office space in this section of the building is carpeted. It is possible that the floor tiles and/or carpet may be covering certain features of the original floors, such as stained areas. The dry cleaning room has a ceiling-mounted oil-fired space heater as well as an air compressor located on the southeastern wall [3].

In April 2015, ME Department of Environmental Protection (ME DEP) hired Ransom Consulting, Inc. to conduct a Phase I Environmental Site Assessment. Ransom contracted Environmental Data Resources (EDR) to conduct a search of federal and state databases containing known and suspected sites of environmental contamination. The site was identified by EDR under databases including Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (CESQG), Facility Index System/Facility

Registry System (FINDS), EDR United States Historical Cleaners, United States Aerometric Information Retrieval System (AIRS), and Underground Injection Control (UIC) Site. According to information contained in the EDR report, the site was identified as a U.S. EPA Hazardous Waste Site for disposal of small quantities of halogenated solvent materials associated with the former dry cleaning operation, including tetrachloroethylene. Several violations were reported in connection with the site's listing as a RCRA CESQG [4].

As part of the Phase I ESA, a Vapor Encroachment Assessment (VEA) was performed in general accordance with American Society for Testing and Materials (ASTM) International Standard E2600-10. Based on the operation of the site property as a dry cleaning facility using "Perc" from at least 1955 until 2014, a Vapor Encroachment Condition (VEC) cannot be ruled out. If contaminants have impacted subsurface conditions at the site, these contaminants would have the potential to migrate in soil vapor to surrounding properties through preferential pathways such as municipal utility trenches. These contaminants could then impact indoor air conditions through vapor intrusion to surrounding structures [4].

From July through September 2015, ME DEP hired CES, Inc. to conduct a Phase II Environmental Site Assessment. A total of eight soil borings were advanced of which five were completed as temporary monitoring wells for the collection of groundwater samples. The groundwater sample collected from monitoring well MW-05 was reported to contain total xylenes [3,700 micrograms per Liter (µg/L)] and naphthalene (330 µg/L) above the ME Remedial Action Guidelines (RAGs) for Groundwater for both Residential and Construction Worker scenarios toluene, ethylbenzene, acetone, n-butylbenzene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene were reported above the laboratory detection limit. The groundwater sample collected from monitoring well MW-08 was reported to contain trichloroethene (320 µg/L) above the RAGs for Groundwater Construction Worker. Tetrachloroethene, vinyl chloride, trans-1,2-dichloroethene and cis-1,2-dichloroethene were reported above the laboratory detection limit. Several volatile organic compounds (VOCs) were detected in the groundwater sample from monitoring wells MW-03 and MW-07 and were reported above the laboratory detection limit [3].

Surficial soil sample results from SS-07 [0-2 feet below ground surface (bgs)] did not detect volatile compounds at concentrations above the RAGs for Residential and Commercial Worker scenarios. However, the concentration of tetrachloroethene was detected above the laboratory detection limits. No other VOC compounds were detected from the sample collected. Subsurface soil samples from boring B-02 (6-8 feet bgs), B-05 (0-4 feet bgs), and B-08 (0-2 feet bgs) did not detect any compounds at concentrations above the RAGs for Construction Worker scenarios. However, concentration of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene were detected above the laboratory detection limits. Soil gas samples were reported to contain volatile organic compounds (1,1-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, and cis-1,2-dichloroethene), which were detected in soil gas sample locations (SV-01, SV-02, SV-03, SV-04, SV-08, SV-09, SV-10 and SV-12) above the laboratory detection limit.

Several volatile organic compounds (trans-1,2-dichloroethene, cis-1,2-dichloroethene, and 1,1,1-trichloroethene) were detected in the subslab soil vapor sample locations (SSV-01, SSV- 02, and SSV-03) above the laboratory detection limit. The RAGs are not directly comparable to subslab

soil gas samples. Therefore, an attenuation factor was applied to these samples prior to comparison. Applying this attenuation factor to the reported results, the concentrations of trans-1,2-dichloroethene, cis-1,2-dichloroethene, trichloroethene and tetrachloroethene for SSV-01 and trichloroethene and tetrachloroethene for SSV-02 and SSV-03 were greater than 10 times the Indoor Air for commercial settings level [3].

The air sample collected from inside the facility (IA-1) reported concentrations of tetrachloroethene above the RAGs for the Indoor Air Commercial applications. Although several detections were identified, no other VOC compounds were identified exceeding the Indoor Air for commercial settings [3].

On 28 July 2015, ME DEP conducted a hazardous waste management inspection at the site. LeBlanc Cleaners was inspected for compliance with standards for generators of hazardous waste. The inspection revealed that LeBlanc Cleaners generates regulated hazardous wastes, including tetrachloroethylene still bottoms, condenser water, filters, and lint. LeBlanc Cleaners also generates universal wastes, a category of hazardous waste which includes fluorescent lamps and other mercury-containing lamps, mercury switches and devices, cathode ray tubes (CRTs), certain batteries and other wastes which are required to be recycled. As a result of the inspection, ME DEP identified the following violations: treating or disposing of hazardous waste on-site without a license to do so, and by means of evaporation; failure to keep containers closed except when adding or removing waste; failure to determine if wastes generated are hazardous; failure to label or mark each container of hazardous waste with the date upon which each period of accumulation begins and the words "Hazardous Waste"; failure to ship hazardous waste off site within 180 days of the full date; and failure to conduct generator closure [5].

Site Activities

On 27 April 2016, U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Marcus Holmes, EPA's Mobile Laboratory and EPA Chemist Scott Clifford, and Weston Solutions, Inc., START members Andrew Danikas, Eric Ackerman, Christine Dupree, and Ken Robinson mobilized to the site. The objective of this sampling event was to collect subsurface soil samples and surface soil samples for on-site VOC screening and X-Ray Fluorescence (XRF) metals screening, collect sub-slab soil gas for on-site VOC screening, and submit subsurface soil, surface soil, sub-slab soil gas samples, storm drain and floor drain air samples, and drum product samples for fixed laboratory confirmation analyses for VOC and semivolatile organic compound (SVOC) analyses to identify the presence of hazardous substances; and to determine if further actions, including removal activities, may be warranted at the site.

START personnel established a support zone, and START member Danikas conducted a safety and operations meeting. On-site personnel reviewed and signed the site Health and Safety Plan (HASP), which was prepared as a separate document entitled *Weston Solutions, Inc., Region I START Site Health and Safety Plan (HASP) LeBlanc Cleaners Site, Lewiston, Maine*, dated April 2016 [6]. Following the completion of the safety and operations meeting, START personnel calibrated the air monitoring instrument, a MultiRAE and a radiation meter (MicroR) [8, 9]. Background levels were recorded in the HASP as follows: photoionization detector (PID) = 0.0 parts per million (ppm); lower explosive limit (LEL) = 0%; oxygen (O_2) = 20.9%; and MicroR = 12 -15 microRoentgens per hour (µR/hr). For the duration of the sampling event, START

personnel conducted daily safety and operations meetings and calibrated instrumentation for use on site throughout field operations.

START personnel conducted a site walk inside the building and noted the various dry cleaning machines, drums/containers, ASTs, and miscellaneous dry cleaning supplies (see Appendix C, Photodocumentation Log). During the site walk, OSC Holmes selected locations for the soil borings, sub-slab soil gas wells, and drum product samples. After completing the site walk, START personnel prepared the subsurface soil sampling apparatus (mounted concrete core drill and electric jackhammer with Geoprobe® macrocores) and bottleware. START personnel decontaminated all down-hole Geoprobe equipment and began preparing the equipment needed for soil boring classification in the driveway.

START personnel began collecting subsurface and surface soil samples. The concrete core drill was used to drill a 3-inch diameter hole through the concrete floor in order to advance the Geoprobe® macrocores with a electric hammer down to depths from 0 to 8 feet below ground surface (bgs). Surface soil samples were collected from 0 to 3 inches bgs using a stainless steel scoop. Sampling activities were performed in accordance with the Sampling and Analysis Plan (SAP), which was prepared as a separate document, entitled *Sampling and Analysis Plan for the LeBlanc Cleaners Site, Lewiston, Androscoggin County, Maine,* dated April 2016 [7].

START personnel installed five subslab soil gas wells, designated as SG-01 through SG-05 (see Appendix A, Figure 3). During the installation of sub-slab soil gas well SG-03, an initial solvent odor was noticed during and after port installation; and a PID reading of 48 ppm from the soil gas well was recorded.

START personnel collected 22 subsurface soil samples from four soil boring locations (SB-01 through SB-04) inside the building including one field duplicate (see Appendix F, Boring Logs). All of the subsurface soil samples collected were submitted to the EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Field Laboratory, operated by EPA Field Chemist Clifford, for on-site metals screening analysis via XRF, and for VOC field screening analysis via gas chromatograph (GC). All of the subsurface soil samples collected were selected for confirmatory VOC and SVOC analyses at the OEME laboratory located in North Chelmsford, Massachusetts. Approximately 10% of the subsurface soil samples were selected for confirmatory metals analysis at the OEME Laboratory.

During the day, ME DEP representative Ted Wolfertz and the property owner Alfred LeBlanc arrived on site and met with OSC Holmes.

Sampling and field activities were completed for the day. START personnel collected the appropriate number of rinsate blanks. START personnel completed chain-of-custody (COC) records to document the history of soil samples from the time of sample collection through transportation and analysis (see Appendix F, Chain-of-Custody Record). The subsurface soil samples were placed on ice inside coolers, and secured pending delivery to the OEME Laboratory.

On 28 April 2016, EPA OSC Holmes, EPA Field Chemist Clifford, and START members Danikas, Ackerman, Dupree, and Robinson mobilized to the site to continue collecting

subsurface soil samples, conducting on-site screening analyses, and collecting sub-slab soil gas samples. START personnel established a support zone and calibrated the air monitoring instrument, a MultiRAE and a radiation meter (MicroR) [8, 9]. START member Ackerman conducted a site walk with the MultiRAE and MicroR instruments. No readings above background levels were recorded on either instrument.

START personnel collected 11 surface soil samples, and advanced the Geoprobe macrocores at an additional six locations (SB-06 through SB-10), collected 52 subsurface soil samples, including two field duplicates from the borings that were advance both inside and outside of the building (see Appendix A, Figure 3, Appendix B, Table 1, Sample Descriptions, and Appendix F, Boring Logs). Soil samples were submitted to EPA Field Chemist Clifford for XRF (metals) and GC (VOC) field screening analyses in the OEME Mobile Field Laboratory.

Sampling and field activities were completed for the day. START personnel collected the appropriate number of rinsate blanks and completed COC records (see Appendix F, Chain-of-Custody Record). The soil and rinsate samples were placed on ice inside coolers, and secured pending delivery to the OEME.

On 29 April 2016, EPA OSC Holmes, EPA Field Chemist Clifford, and START members Danikas, Ackerman, Dupree, and Robinson mobilized to the site. START personnel collected five sub-slab soil gas samples (SG-01 through SG-05) including one duplicate and one ambient sample using SUMMA canisters. In addition, one air sample was collected from a floor drain (Sewer-01) inside the boiler room and one air sample (Sewer-02) was collected from a storm drain in the driveway. START member Ackerman collected five drum product samples (DP-01 through DP-05) from inside the building. During the sampling of the drums/containers, START member Ackerman noted a PID reading of 723 ppm for DP-02, and >999 ppm for DP-06 and DP-07. The sub-slab soil gas, air samples, and drum product samples were submitted for confirmatory VOC and SVOC analyses at the OEME laboratory located in North Chelmsford, Massachusetts.

Field sampling activities were completed. START personnel collected the appropriate number of rinsate blanks and completed COC records (see Appendix F, Chain-of-Custody Record). The soil, groundwater, and rinsate samples were placed into jars, labeled, and preserved by placing them on ice inside coolers, and secured pending delivery to the OEME .

START members Danikas, Dupree, and Robinson photodocumented sample locations and site features (see Appendix C, Photodocumentation Log).

START member Danikas utilized the Trimble™ Pathfinder Pro XRS Global Position System (GPS) unit to record sample locations (see Appendix A, Figure 3) [12].

Analytical data summary tables are provided in Appendix B.

ANALYTICAL DATA SUMMARIES

A total of 50 subsurface soil samples were collected from 10 borings (SB-01 through SB-10) from locations inside and outside of the building. In addition, a total of 11 surface soil samples

(SS-01 through SS-11) were collected from locations along the perimeter of the site. A total of five sub-slab soil gas samples (SG-01 through SG-05) were collected. A total of five drum product samples (DP-01 through DP-05) were collected from drums/containers inside the building. One air sample was collected from a floor drain inside the boiler room and one air sample was collected from a storm drain in the parking lot.

The subsurface soil and surface soil samples were screened in the field for volatile organic compounds (VOCs) and metals using the EPA Mobile Laboratory. The sub-slab soil gas samples were screened in the field for VOCs using the EPA Mobile Laboratory.

The subsurface soil, surface soil, sub-slab soil gas samples, storm drain, floor drain air samples, and drum product samples were also submitted for confirmatory VOC and SVOC analyses to the EPA OEME laboratory located in North Chelmsford, Massachusetts. Approximately 10% of the surface and subsurface soil samples were submitted for confirmatory metals analysis at the EPA OEME laboratory. Complete field screening and laboratory analytical results for all of the samples submitted for analyses during this sampling event may be found in the EPA Site File.

Volatile Organic Compound Soil Field Screening Data Summary

A total of 57 soil samples were field screened for cis-1,2-Dichloroethylene, trichloroethylene (TCE), and PCE. The maximum concentration of cis-1,2-Dichloroethylene detected was 38,500 micrograms per Kilogram (µg/Kg) in SB-03C, the maximum concentration of TCE detected was 57,300 µg/Kg in SB-03C, and the maximum concentration of PCE detected was 477,000 µg/Kg in SB-03C. TCE was detected at concentrations exceeding its respective EPA Removal Management Level (RML) for Industrial Soil in one soil sample. Refer to Appendix B, Table 2.

Metals in Soil Field Screening Data Summary

A total of 57 soil samples were field screened for arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Five of these metals were detected, as follows (maximum concentration and sample location in parentheses): arsenic (46 mg/Kg in SB-01B), barium (946 mg/Kg in SB-10C), cadmium (15 mg/Kg in SB-04A), chromium (717 mg/Kg in SB-10A), and lead (527 in SB-09B). Arsenic was detected at concentrations exceeding the respective Maine Remedial Action Guidelines (ME RAG) for a Commercial Worker Exposure Scenario. Refer to Appendix B, Table 4. Chromium was detected at concentrations exceeding the respective EPA Removal Management Level (RML) for Industrial Soil.

Volatile Organic Compounds in Air Field Screening Data Summary

A total of five sub-slab soil gas samples were screened for cis-1,2-Dichloroethylene, trichloroethylene (TCE), and tetrachloroethylene (PCE). The maximum concentration of cis-1,2-Dichloroethylene detected was 39,236 micrograms per cubic meter ($\mu g/m^3$) in sample SG-03, the maximum concentration of TCE detected was 32,230 $\mu g/m^3$ in sample SG-03, and the maximum concentration of PCE detected was 3,403,379 $\mu g/m^3$ in sample SG-03. See Appendix B, Table 3 for a summary of VOC results.

Volatile Organic Compound Soil Confirmation Data – OEME Laboratory Data Summary

A total of 57 soil samples were submitted to OEME for VOC analyses. Laboratory analytical results of the samples indicated the presence of the following 14 VOCs (maximum concentration and sample number in parentheses): cis-1,2-dichloroethylene (150,000 µg/Kg in SB-03D), 1,3,5-trimethylbenzene (6,800 µg/Kg in SB-10D), 1,2,4-trimethylbenzene (14,000 µg/Kg in SB-02H), methylene chloride (110 µg/Kg in SB-02A), 2-propanone (4,500 µg/Kg in SS-08A), trans-1,2-dichloroethylene (3,700 µg/Kg in SB-03D), tetrachloroethylene (440,000 µg/Kg in SB-03C), trichloroethylene (61,000 µg/Kg in SB-03D), m/p xylene (5,900 µg/Kg in SB-10D), isopropylbenzene (880 µg/Kg in SB-10D), sec-butylbenzene (1,200 µg/Kg in SB-07GH) para-isopropyltoluene (7,100 µg/Kg in SB-08A), n-butylbenzene (1,400 µg/Kg in SB-10D), and naphthalene (4,000 µg/Kg in SB-10D) (see Appendix B, Table 6) [14, 15, 16, 19]. Trichloroethylene was detected at concentrations exceeding the respective EPA Removal Management Levels (RMLs) for Industrial Soil (HQ=3).

Volatile Organic Compound in Air Confirmation Data – OEME Laboratory Data Summary

A total of nine sub-slab soil gas samples were submitted to OEME for confirmatory VOC analyses. Laboratory analytical results of the samples indicated the presence of the following 15 VOCs (maximum concentration and sample number in parentheses): 1,1,1-trichloroethane (2 µg/m3 in SG-01), 1,2,4-trimethylbenzene (85 µg/m3 in SG-04), 1,3,5-trimethylbenzene (27 µg/m3 in SG-04), 4-ethyltoluene (21 µg/m3 in SG-04), benzene (4.5 µg/m3 in SG-05), cyclohexane (2.8 µg/m3 in SG-05), dichlorodifluoromethane (2.2 µg/m3 in AMB-01), hexane (28 µg/m3 in SG-05) tetrachloroethylene (15,600,000 µg/m3 in SG-03), toluene (16 µg/m3 in SG-05) trichloroethylene (120,000 µg/m3 in SG-03), trichlorofluoromethane (1.2 µg/m3 in AMB-01), c-1,2-Dichloroethylene (130,000 µg/m3 in SG-03), m/p-Xylenes (85 µg/m3 in SG-05), and t-1,2-Dichloroethylene (130,000 µg/m3 in SG-03) (see Appendix B, Table 5) [13].

Semivolatile Organic Compound Soil Confirmation Data – OEME Laboratory Data Summary

A total of 57 soil samples were submitted to OEME for confirmatory SVOC analyses. Laboratory analytical results of the samples indicated the presence of the following 21 SVOCs (maximum concentration and sample number in parentheses): acenaphthylene (3,900 µg/Kg in SS-01), benzoic acid (940 µg/Kg in SS-03), naphthalene (3,900 µg/Kg in SB-106B), 2-Methylnaphthalene (1,600 µg/Kg in SB-09D), 1-Methylnaphthalene (820 µg/Kg in SB-01D), phenanthrene (14,000 µg/Kg SS-06), anthracene (730 in µg/Kg SB-08A), carbazole (560 µg/Kg in SB-08A), fluoranthene (25,000 µg/Kg SS-01), pyrene (35,000 µg/Kg SS-01), butylbenzylphthalate (38,000 µg/Kg SS-02), benzo(a)anthracene (12,000 µg/Kg SS-01), chrysene (17,000 µg/Kg SS-01), bis(2-ethylhexyl)phthalate (22,000 µg/Kg SB-08A), di-n-octyl phthalate (1,200 µg/Kg SB-08A), benzo(b)fluoranthene (21,000 µg/Kg in SS-01), benzo(k)fluoranthene (9,200 µg/Kg in SS-02), benzo(a)pyrene (11,000 µg/Kg in SS-01), indeno(1,2,3-cd)pyrene (6,600 µg/Kg in SS-01), and benzo(g,h,i)perylene (2,300 µg/Kg in SS-01) [20]. One of the SVOCs (benzo(a)pyrene, was detected at concentrations exceeding the respective ME RAG for Commercial Soil Workers (see Appendix B, Table 7) [20-22].

Metals in Soil Confirmation Data – OEME Laboratory Data Summary

A total of 13 soil samples were submitted to OEME for confirmatory metals analyses. Laboratory analytical results of the samples indicated the presence of the following 18 metals (maximum concentration and sample number in parentheses): silver (10 mg/Kg in SB-09B), aluminum (26,000 mg/Kg in SB-05B), arsenic (18 mg/Kg in SB-06B), barium (460 mg/Kg in SB-01B), beryllium (1.4 mg/Kg in SB-01B), calcium (17,000 mg/Kg in SB-01B), cadmium (3.4 mg/Kg in SB-09B), chromium (250 mg/Kg in SB-10A), copper (150 mg/Kg in SB-10A), iron (30,000 in SB-10D), magnesium (8,200 mg/Kg in SB-09B), manganese (690 mg/Kg in SB-01B), nickel (36 mg/Kg SB-07C), lead (2,300 in SB-05D), antimony (2 mg/Kg in SB-01B), vanadium (51 mg/Kg in SB-05D and SB-07C), and zinc (8,100 mg/Kg in SB-10A). Arsenic was detected at concentrations exceeding the respective ME RAG for a Commercial Worker Exposure Scenario. Refer to Appendix B, Table 4. Calcium and lead were detected at concentrations exceeding their respective EPA Removal Management Level (RML) for Industrial Soil (see Appendix B, Table 8) [17].

Semi-olatile Organic Compound Drum Product Confirmation Data – OEME Laboratory Data Summary

A total of five drum product samples were submitted to OEME for SVOC confirmatory analyses. Laboratory analytical results of the samples indicated the presence of the following three SVOCs (maximum concentration and sample number in parentheses): butylbenzylphthalate (88 mg/Kg DP-05), benzo(b)fluoranthene (120 mg/Kg in DP-05), and benzo(k)fluoranthene (83 mg/Kg in DP-05) (see Appendix B, Table 10) [18].

Volatile Organic Compound Drum Product Confirmation Data – OEME Laboratory Data Summary

A total of five drum product samples were submitted to OEME for confirmatory VOC analyses. Laboratory analytical results of the samples indicated the presence of the following two SVOCs (maximum concentration and sample number in parentheses): 2-Propanone (19,000 µg/Kg in DP-02), and tetrachloroethylene (190,000 µg/Kg in DP-02) (see Appendix B, Table 9) [19].

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[22] U.S. Environmental Protection Agency. 9 June 2016. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 16050005. [LeBlanc Cleaners - BNAs in Soil Medium Level Method].

III. Appendices

Appendix A

Figures

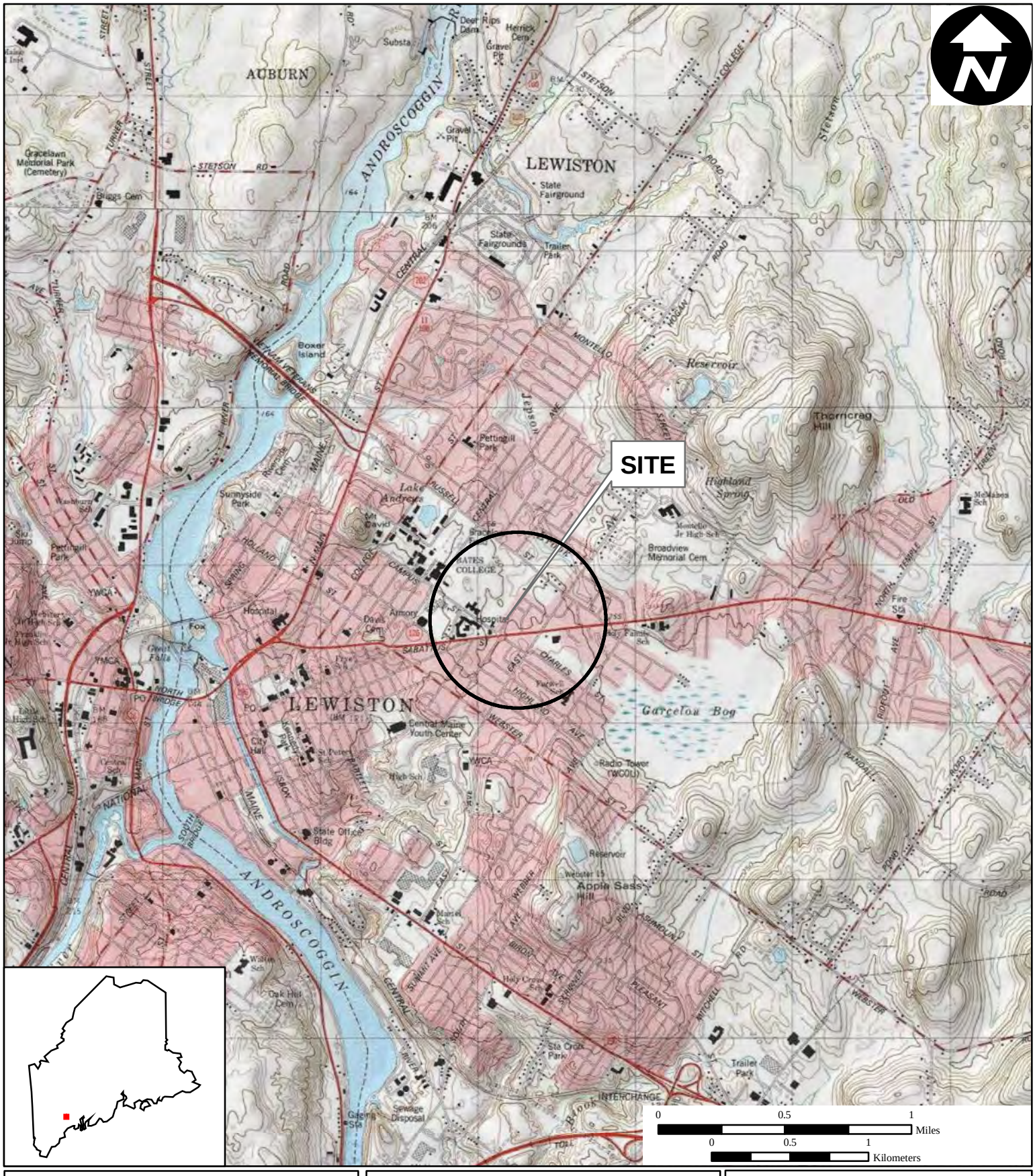

Figure 1

Site Location Map

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	22 February 2016

Data Sources:
Topos: MicroPath/USGS/USA Topo Maps
Quadrangle Name(s):
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WESTON SOLUTIONS

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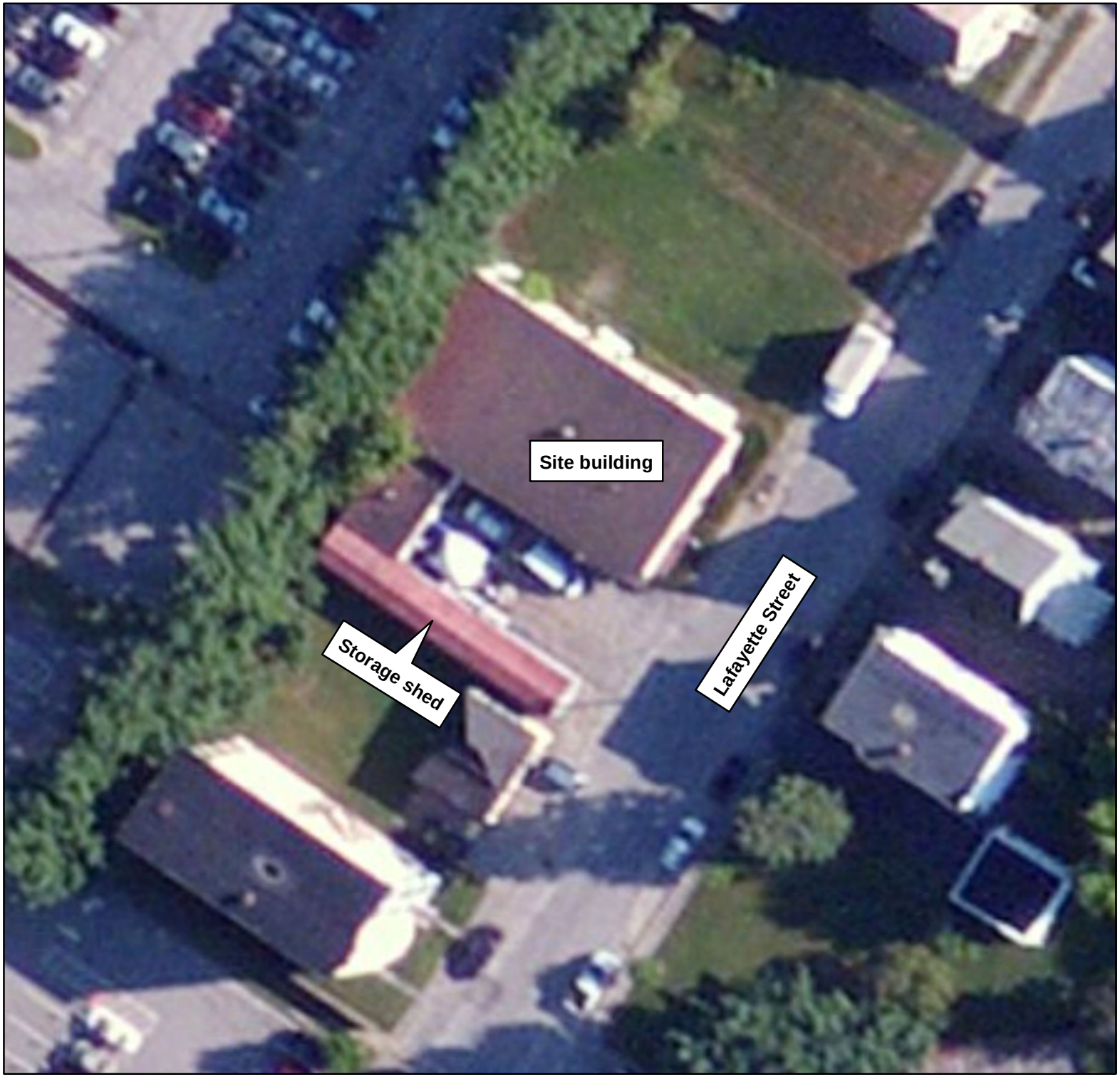

Figure 2

Site Diagram

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	22 February 2016

LEGEND

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

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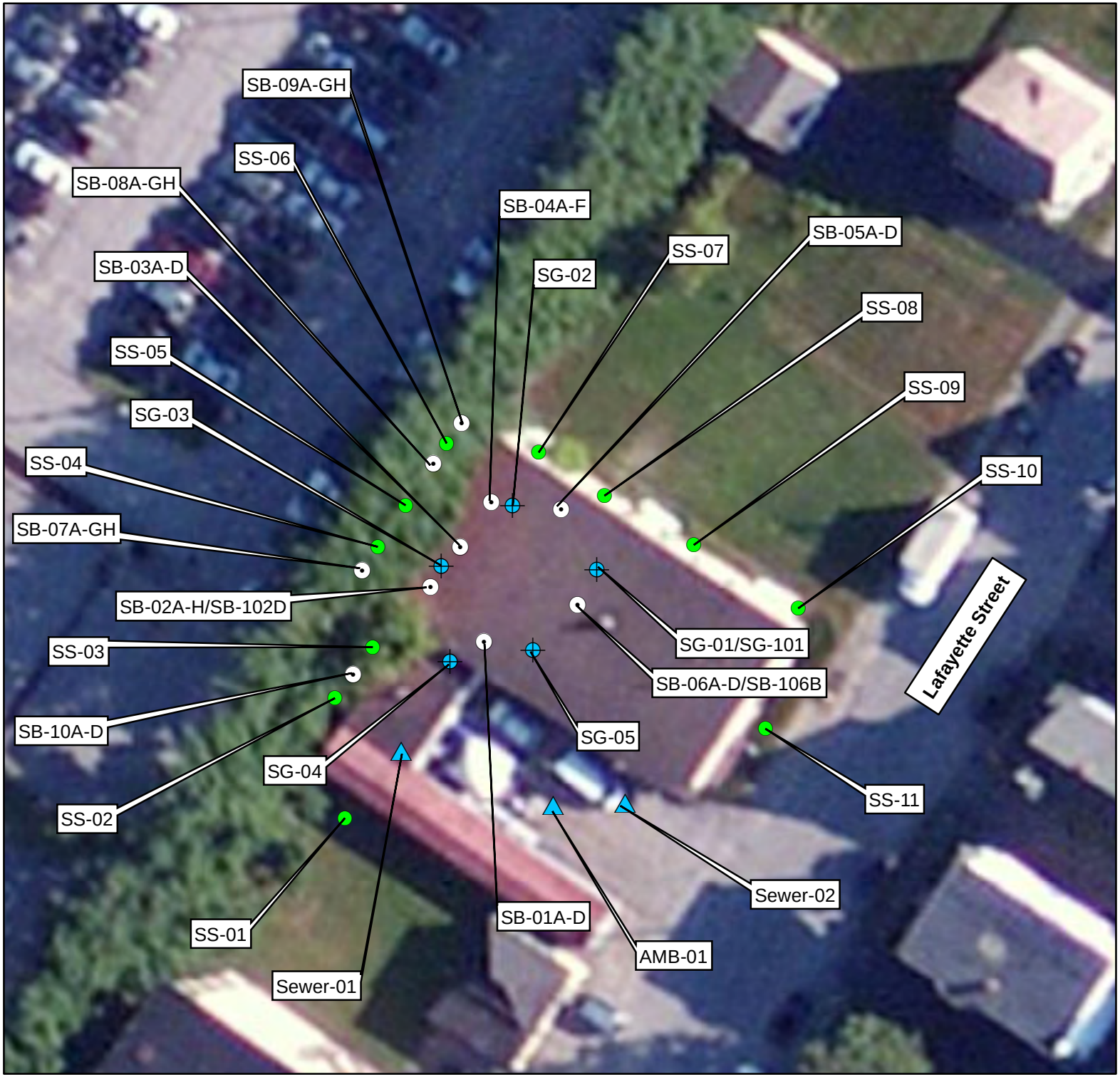

Figure 3

Sample Location Map

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	K. Robinson
Modified on:	21 July 2016

Legend

- Surface Soil Sample
- Soil Boring Sample
- Soil Gas Sample
- Air Sample

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

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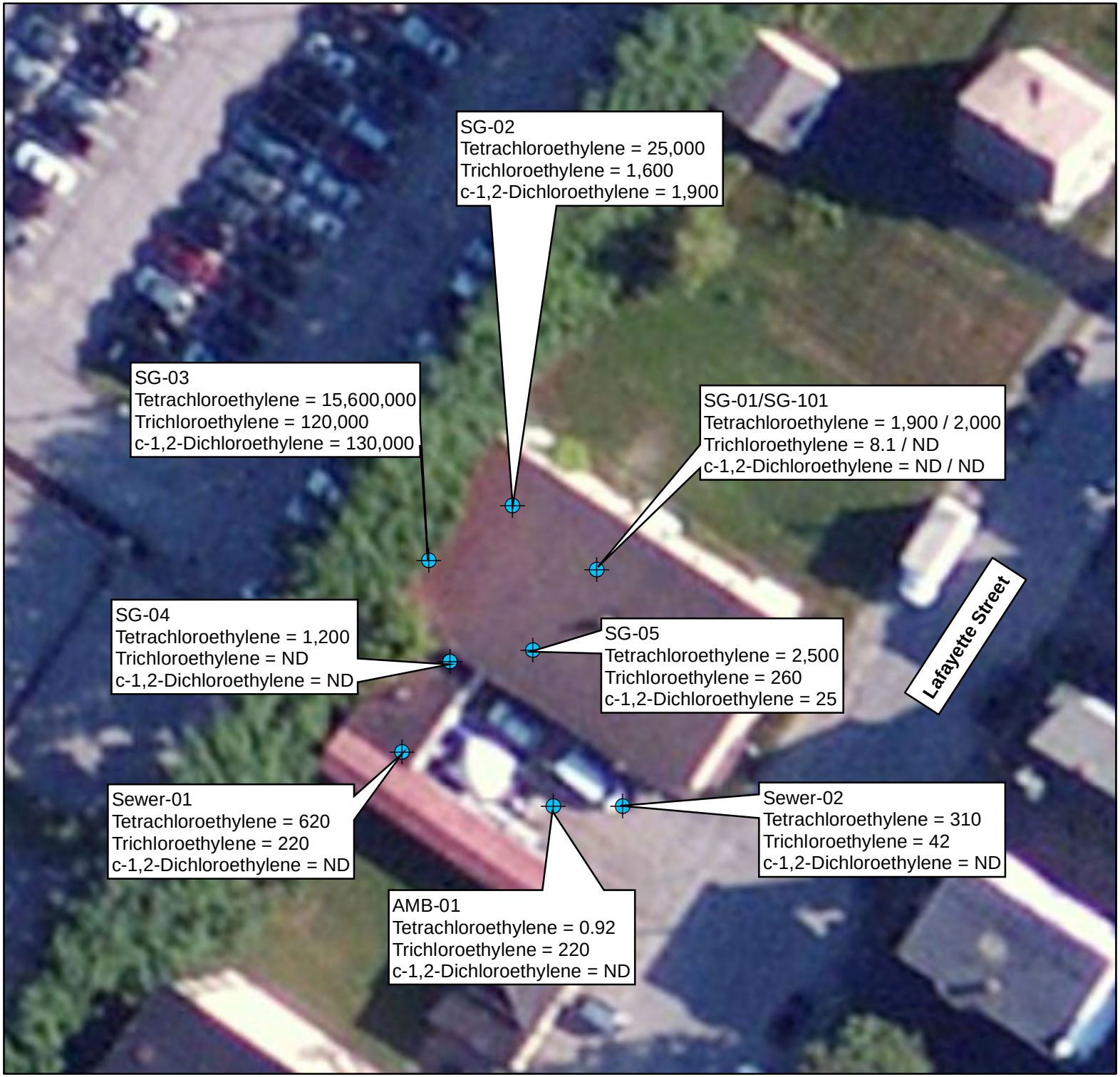

Figure 4

Sub-Slab Soil Gas Sample Results Map
Volatile Organic Compounds

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	27 June 2016

Legend

Soil Gas Sample

All results are reported in micrograms per cubic meter.

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

E:\ME_gis\LeBlanc Cleaners\MXDs\Figure 4 soil gas sample results.mxd

Figure 5

Subsurface Soil Sample Results Map
Tetrachloroethylene

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	27 June 2016

Legend

⊙ Soil Boring Sample

Sample results that did not have any detections have been omitted.

All results are reported in micrograms per Kilogram.

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

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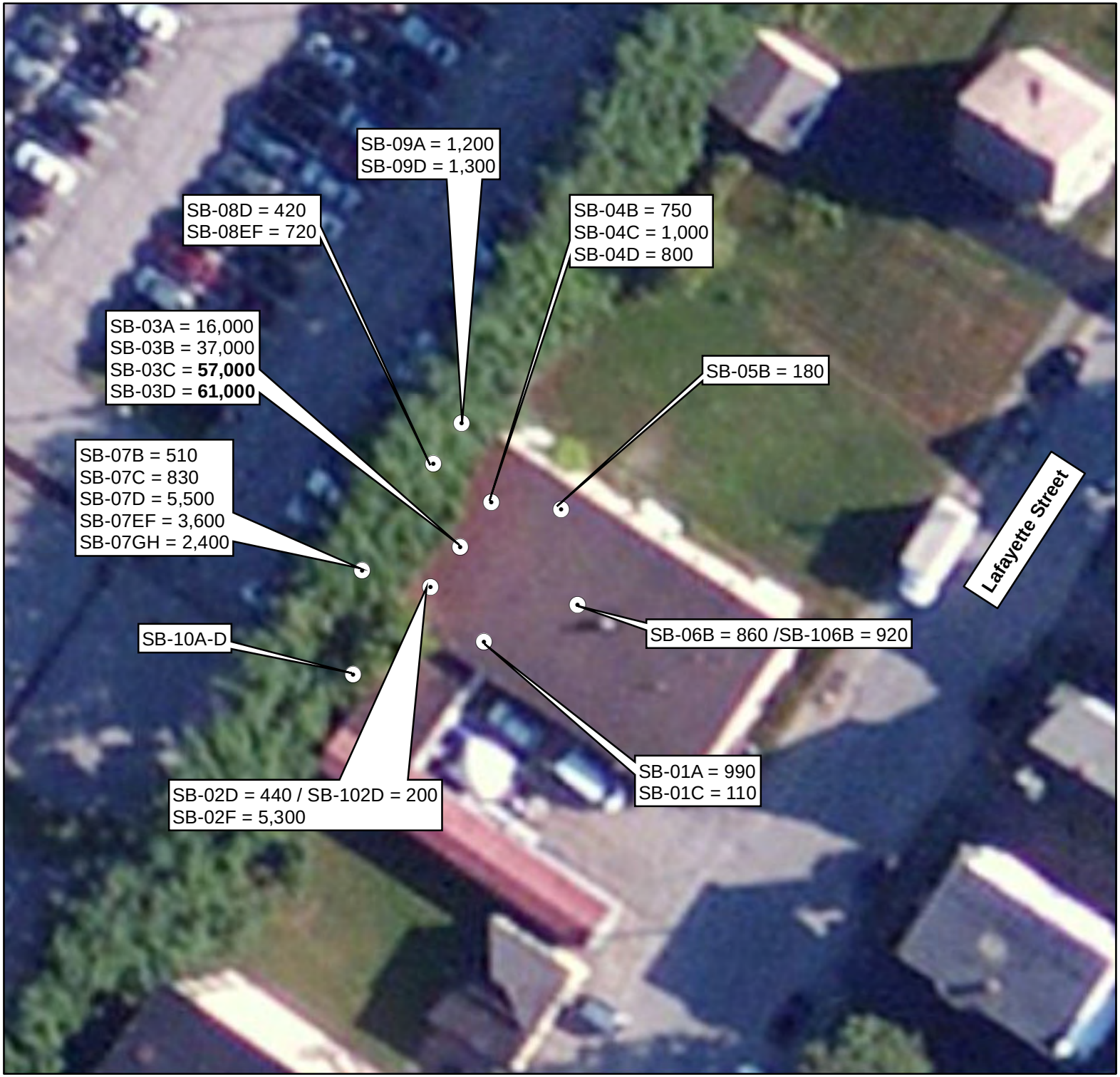

Figure 6

Subsurface Soil Sample Results Map

Trichloroethylene

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	27 June 2016

Legend

⊙ Soil Boring Sample

Sample results that did not have any detections have been omitted.

All results are reported in micrograms per Kilogram.

Results that are bolded exceed the EPA Removal Management Levels for Industrial Soil.

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

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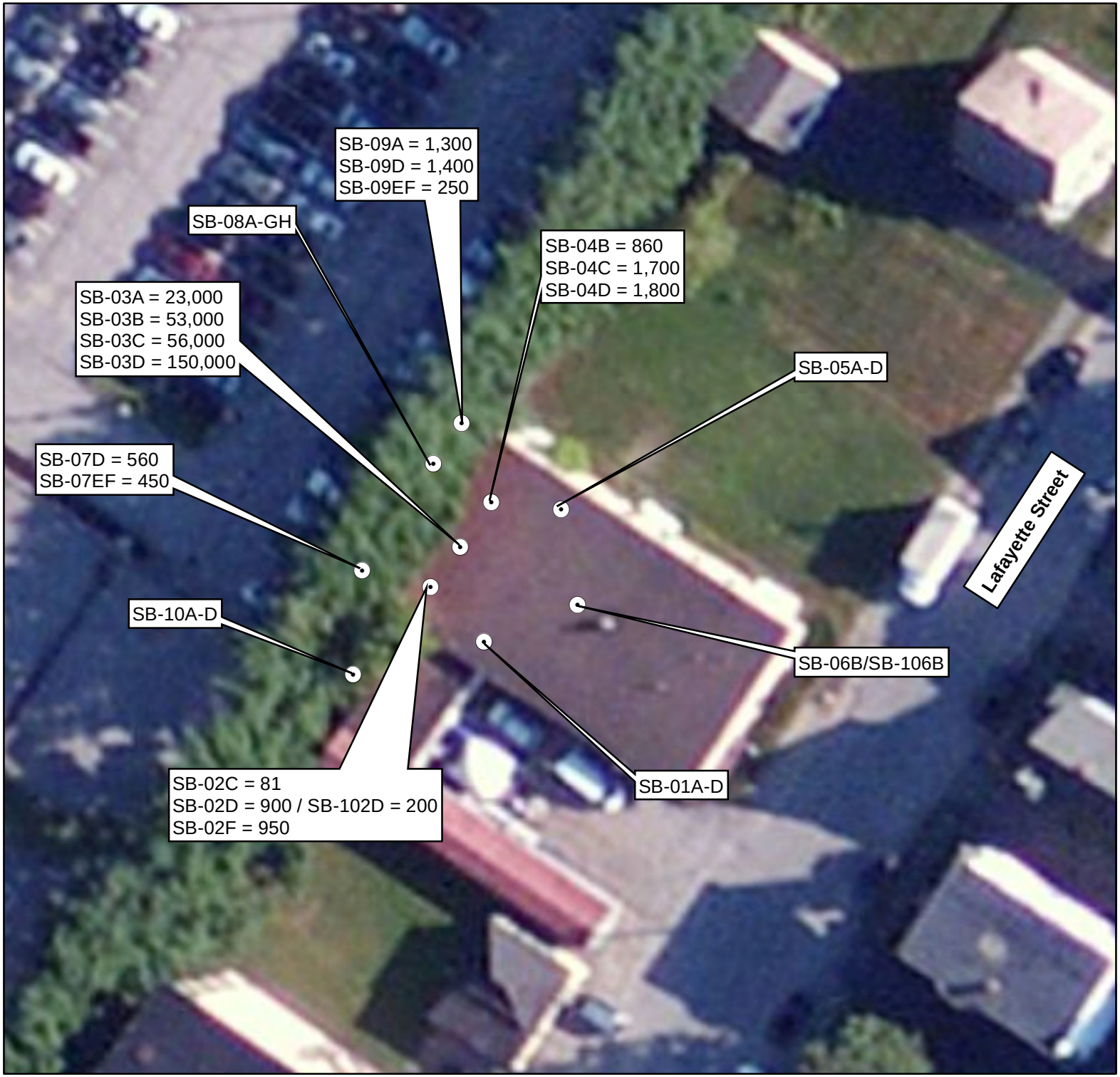

Figure 7
Subsurface Soil Sample Results Map
cis-1,2-Dichloroethylene
LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	27 June 2016

Legend

⊙ Soil Boring Sample

Sample results that did not have any detections have been omitted.

All results are reported in micrograms per Kilogram.

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

E:\ME_gis\LeBlanc Cleaners\MXDs\Figure 7 soil results cis 1-2.mxd

Figure 8

Surface Soil Sample Results Map
Metals

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	A. Danikas
Modified on:	27 June 2016

Legend

Surface Soil Sample

Results are reported in milligrams per Kilogram.

Metal results that were analyzed for, but not detected, have been omitted.

Results that are bolded exceed the EPA Removal Management Levels for Industrial Soil.

N

0 25 50
Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

WESTON SOLUTIONS

E:\ME_gis\LeBlanc Cleaners\MXDs\Figure 8 surface soil metals.mxd

Appendix B

Tables and Spreadsheets

TABLE 1

SAMPLE DESCRIPTIONS
SURFACE SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

Sample Location	Sample Number	Collection Date	Depth (Inches)	Sample Type	Sample Description	Comments
SS-01	0091-MH-0056	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, little medium gravel, trace organics (roots).	MS/MSD
SS-02	0091-MH-0057	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace organics (roots).	
SS-03	0091-MH-0058	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace organics (roots).	
SS-04	0091-MH-0059	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace organics (roots).	
SS-05	0091-MH-0060	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-06	0091-MH-0061	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-07	0091-MH-0062	4/28/2016	0 - 6	Grab	Brownish gray SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-08	0091-MH-0063	4/28/2016	0 - 6	Grab	Brownish gray SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-09	0091-MH-0064	4/28/2016	0 - 6	Grab	Brownish gray SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-10	0091-MH-0065	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace fine gravel, trace organics (roots).	
SS-11	0091-MH-0066	4/28/2016	0 - 6	Grab	Brown, SILT and fine SAND, trace fine gravel, trace organics (roots).	

NOTES:

1) Soil samples collected in accordance with Weston Solutions Inc. Region I Standard Operating Procedure (SOP) for Surface and Subsurface Soil Sampling SOP No. WSI/S3-001.
2) MS/MSD = Matrix Spike/Matrix Spike Duplicate
3) * Modified Burmister Classification System used.
4) SS = Surface Soil Sample.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-01A	SB-01B	SB-01C	SB-01D	SB-02A	SB-02B
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	4,600	4,300	820	ND (20)	1,800	1,100
Trichloroethylene (TCE)	**56,000**	**850,000**	520	130	40	ND (40)	ND (40)	ND (40)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-02C	SB-02D	SB-02E	SB-02F	SB-02G	SB-02H
SAMPLE DEPTH:			2 - 3 ft	3 - 4 ft	4 - 5 ft	5 - 6 ft	6 - 7 ft	7 - 8 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (500)	ND (500)	ND (500)	720	950	890
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	1,800	5,800	4,600	160,000	120,000	72,000
Trichloroethylene (TCE)	**56,000**	**850,000**	ND (40)	250	110	4,900	5,300	4,300

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-03A	SB-03B	SB-03C	SB-03D	SB-04A	SB-04B
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	11,000	21,000	39,000	25,000	ND (500)	630
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	55,000	93,000	480,000	25,000	110	7,200
Trichloroethylene (TCE)	**56,000**	**850,000**	9,700	23,000	**57,000**	21,000	ND (40)	630

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-04C	SB-04D	SB-04E	SB-04F	SB-05A	SB-05B
SAMPLE DEPTH:			2 - 3 ft	3 - 4 ft	4 - 5 ft	5 - 6 ft	0 - 1 ft	1 - 2 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	680	570	ND (500)	ND (500)	ND (500)	ND (500)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	2,800	1,400	21	ND (20)	220	230
Trichloroethylene (TCE)	**56,000**	**850,000**	470	350	ND (40)	ND (40)	ND (80)	ND (80)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-05C	SB-05D	SB-06A	SB-06B	SB-06C	SB-06D
SAMPLE DEPTH:			2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (500)	ND (500)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	480	ND (40)	ND (40)	300	ND (40)	ND (40)
Trichloroethylene (TCE)	**56,000**	**850,000**	ND (80)	ND (80)	ND (80)	ND (80)	ND (80)	ND (80)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-07A	SB-07B	SB-07C	SB-07D	SB-07EF	SB-07GH
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	340	3,900	4,500	1,500	1,600	5,500
Trichloroethylene (TCE)	**56,000**	**850,000**	ND (40)	150	330	1,200	580	1,400

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-08A	SB-08B	SB-08C	SB-08D	SB-08EF	SB-08GH
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	520	1,700	1,900	1,800	2,900	ND (25)
Trichloroethylene (TCE)	**56,000**	**850,000**	ND (100)	ND (100)	ND (100)	170	430	ND (100)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-09A	SB-09B	SB-09C	SB-09D	SB-09EF	SB-09GH
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	5,800	2,700	1,500	5,700	100	ND (25)
Trichloroethylene (TCE)	**56,000**	**850,000**	1,400	ND (100)	ND (100)	1,100	ND (100)	ND (100)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-10A	SB-10B	SB-10C	SB-10D	SB-102D*	SB-106B**
SAMPLE DEPTH:			0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	3 - 4 ft	1 - 2 ft
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (1,800)	ND (1,800)	ND (1,800)	ND (1,800)	ND (500)	ND (1000)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	ND (25)	ND (25)	ND (25)	ND (25)	4,400	580
Trichloroethylene (TCE)	**56,000**	**850,000**	ND (100)	ND (100)	ND (100)	ND (100)	80	ND (80)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SB-109A***	SS-01	SS-02	SS-03	SS-04	SS-05
SAMPLE DEPTH:			0 - 1 ft	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND (1,800)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	1,500	ND (20)	ND (20)	ND (20)	450	220
Trichloroethylene (TCE)	**56,000**	**850,000**	360	ND (40)	ND (40)	ND (40)	ND (40)	ND (40)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11
SAMPLE DEPTH:			0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
COMPOUND			µg/Kg					
cis-1,2-Dichloroethylene	7,000,000	3,400,000	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
Tetrachloroethylene (PCE)	1,200,000	10,000,000	200	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
Trichloroethylene (TCE)	56,000	850,000	ND (40)	ND (40)	ND (40)	ND (40)	ND (40)	ND (40)

Analysis:
Samples field screened by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDVOA2, Volatile Organic Analysis of Soil (PCE and TCE only).

Notes:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a wet weight basis.
2) ND = Not detected at concentrations exceeding reporting limits. Reporting limit in parentheses.
3) ft = feet
4) in = inches
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
7) * Sample SB-102D is a duplicate of Sample SB-02D.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) *** Sample SB-109A is a duplicate of Sample SB-09A.
10) ME RAG = Maine Remedial Action Guidelines Commercial Worker Exposure Scenario.
11) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
12) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.

TABLE 3

SUMMARY OF VOLATILE ORGANIC COMPOUNDS
FIELD SCREENING RESULTS
SUB-SLAB SOIL GAS SAMPLES
APRIL 2016
LEBLANC CLEANERS SITE
LEWISTON, MAINE

SAMPLE LOCATION	SG-01a	SG-02a	SG-03a	SG-04a	SG-05a	SG-BL1
VOC						
cis-1,2-Dichloroethylene	ND (151)	2,021	39,236	ND (151)	ND (151)	ND (150.1)
Tetrachloroethylene (PCE)	576	22,373	3,389,820	569	2,101	ND (10)
Trichloroethylene (TCE)	ND (15)	1,558	32,230	ND (27)	220	ND (15)

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDGRAB4 - Volatile Organic Compound Analysis of Air Samples.
2) All results are reported in micrograms per cubic meter ($\mu g/m^3$). Units initially reported in parts per billion per volume, and converted to $\mu g/m^3$.
3) ND = Not Detected. Reporting Limits provided in parentheses. Reporting Limits units reported in parts per billion per volume, and converted to $\mu g/m^3$.
4) VOC = Volatile Organic Compound
5) *SG-BL1 = Sub-slab vapor blank sample.

TABLE 4

SUMMARY OF METALS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

Sample Location	Sample Depth	Cadmium ME RAG = 94 EPA RML (HQ=3) = 2,900	Lead ME RAG = 1,100 EPA RML (HQ=3) = 800	Arsenic ME RAG = 4.2 EPA RML (HQ=3) = 300	Chromium[ǂ] ME RAG = 10,000 EPA RML (HQ=3) = 630	Barium ME RAG = 10,000 EPA RML (HQ=3) = 650,000	Silver ME RAG = 8,500 EPA RML (HQ=3) = 18,000
SB-01A	0 - 1 ft	ND	88	ND	ND	558	ND
SB-01B	1 - 2 ft	ND	448	**46**	93	101	ND
SB-01C	2 - 3 ft	ND	161	ND	88	345	ND
SB-01D	3 - 4 ft	ND	22	**7**	55	463	ND
SB-02A	0 - 1 ft	13	20	ND	ND	472	ND
SB-02B	1 - 2 ft	12	31	ND	ND	526	ND
SB-02C	2 - 3 ft	ND	31	ND	ND	541	ND
SB-02D	3 - 4 ft	ND	25	ND	ND	555	ND
SB-102D*	3 - 4 ft	ND	17	ND	ND	470	6
SB-02E	4 - 5 ft	ND	24	ND	ND	493	ND
SB-02F	5 - 6 ft	ND	27	**6**	47	624	ND
SB-02G	6 - 7 ft	11	29	**8**	59	644	ND
SB-02H	7 - 8 ft	11	25	**9**	61	628	ND
SB-03A	0 - 1 ft	ND	56	ND	ND	544	ND
SB-03B	1 - 2 ft	ND	126	**17**	95	482	ND
SB-03C	2 - 3 ft	ND	62	ND	ND	563	7
SB-03D	3 - 4 ft	ND	34	**9**	ND	477	ND
SB-04A	0 - 1 ft	15	25	ND	ND	594	7
SB-04B	1 - 2 ft	ND	141	**16**	43	495	ND
SB-04C	2 - 3 ft	9	183	**15**	65	413	ND
SB-04D	3 - 4 ft	ND	111	ND	104	531	ND
SB-04E	4 - 5 ft	ND	74	**15**	73	492	ND
SB-04F	5 - 6 ft	ND	45	**9**	68	504	9
SB-05A	0 - 1 ft	ND	50	ND	ND	506	ND
SB-05B	1 - 2 ft	ND	101	ND	ND	384	ND
SB-05C	2 - 3 ft	ND	159	ND	83	292	ND
SB-05D	3 - 4 ft	ND	177	ND	56	49	ND
SB-06A	0 - 1 ft	12	26	**8**	ND	458	ND
SB-06B	1 - 2 ft	ND	167	**23**	70	452	ND
SB-106B**	1 - 2 ft	ND	171	**14**	66	458	ND
SB-06C	2 - 3 ft	ND	38	ND	44	245	ND
SB-06D	3 - 4 ft	ND	26	ND	67	312	ND
SB-07A	0 - 1 ft	ND	108	ND	61	430	ND
SB-07B	1 - 2 ft	ND	109	ND	60	608	ND
SB-07C	2 - 3 ft	ND	164	ND	111	451	ND
SB-07D	3 - 4 ft	ND	60	ND	67	460	ND
SB-07EF	4 - 5.5 ft	ND	41	ND	74	504	ND
SB-07GH	5.5 - 7 ft	ND	24	ND	69	497	ND
SB-08A	0 - 1 ft	ND	104	ND	55	65	ND
SB-08B	1 - 2 ft	ND	171	ND	84	326	ND
SB-08C	2 - 3 ft	ND	153	ND	72	452	ND
SB-08D	3 - 4 ft	ND	133	ND	48	267	ND
SB-08EF	4 - 5.5 ft	ND	48	ND	65	441	ND
SB-08GH	5.5 - 7 ft	ND	23	**14**	ND	682	ND
SB-09A	0 - 1 ft	ND	105	ND	ND	262	ND
SB-109A***	0 - 1 ft	ND	98	ND	73	263	ND
SB-09B	1 - 2 ft	ND	527	ND	98	332	ND
SB-09C	2 - 3 ft	ND	312	**42**	58	496	6
SB-09D	3 - 4 ft	ND	169	ND	91	276	ND
SB-09EF	4 - 6 ft	ND	84	ND	55	451	ND
SB-09GH	6 - 8 ft	13	28	**20**	37	583	ND
SB-10A	0 - 1 ft	ND	521	ND	**717**	410	ND
SB-10B	1 - 2 ft	ND	30	ND	43	533	ND
SB-10C	2 - 3 ft	ND	23	ND	ND	511	ND
SB-10D	3 - 4 ft	11	36	ND	ND	446	ND
SS-01	0 - 6 in	ND	400	**20**	45	400	ND
SS-02	0 - 6 in	ND	320	ND	81	170	ND
SS-03	0 - 6 in	ND	220	ND	ND	56	ND

NOTES:

1) Soil samples analyzed for heavy metals using EPA Region I Standard Operating Procedure (SOP) Environmental Metals Screening with Thermo Niton XL 3t-600 X-Ray Fluorescence (EIASOP-FLDXRFN3.SOP).
2) Units in parts per million (ppm), equivalent to milligrams per Kilogram (mg/Kg).
3) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10-4. Compounds were compared to RMLs (HQ = 3) by matching the compound CAS number to the RML table. The following RMLs were selected: inorganic arsenic, chromium (hexavalent), cadmium (diet), and lead.
5) [ǂ] = ME RAG value for chromium listed is for chromium (+3) while the EPA RML value for chromium listed is for hexavalent chromium. However, analysis performed was for total chromium.
6) Values bolded and shaded in yellow indicate compounds exceeding ME RAG.
7) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) Criteria, but less than ME RAG. (For chromium only.)
8) ND = Not detected above the reporting limit.
9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.
10) * Sample SB-102D is a duplicate of Sample SB-02D.
11) ** Sample SB-106B is a duplicate of Sample SB-06B.
12) *** Sample SB-109A is a duplicate of Sample SB-09A.
13) ft = feet.
14) in = inches.

TABLE 4

SUMMARY OF METALS FIELD SCREENING RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

Sample Location	Sample Depth	Cadmium ME RAG = 94 EPA RML (HQ=3) = 2,900	Lead ME RAG = 1,100 EPA RML (HQ=3) = 800	Arsenic ME RAG = 4.2 EPA RML (HQ=3) = 300	Chromium[ǂ] ME RAG = 10,000 EPA RML (HQ=3) = 630	Barium ME RAG = 10,000 EPA RML (HQ=3) = 650,000	Silver ME RAG = 8,500 EPA RML (HQ=3) = 18,000
SS-03	0 - 6 in	ND	220	ND	ND	56	ND
SS-04	0 - 6 in	ND	98	ND	50	330	ND
SS-05	0 - 6 in	ND	56	ND	50	160	ND
SS-06	0 - 6 in	ND	120	ND	52	120	ND
SS-07	0 - 6 in	ND	320	**19**	62	240	ND
SS-08	0 - 6 in	ND	110	**11**	ND	300	ND
SS-09	0 - 6 in	ND	57	**9**	ND	260	ND
SS-10	0 - 6 in	ND	84	**8**	ND	140	ND
SS-11	0 - 6 in	ND	79	ND	ND	260	ND

NOTES:

1) Soil samples analyzed for heavy metals using EPA Region I Standard Operating Procedure (SOP) Environmental Metals Screening with Thermo Niton XL 3t-600 X-Ray Fluorescence (EIASOP-FLDXRFN3.SOP).
2) Units in parts per million (ppm), equivalent to milligrams per Kilogram (mg/Kg).
3) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10-4. Compounds were compared to RMLs (HQ = 3) by matching the compound CAS number to the RML table. The following RMLs were selected: inorganic arsenic, chromium (hexavalent), cadmium (diet), and lead.
5) [ǂ] = ME RAG value for chromium listed is for chromium (+3) while the EPA RML value for chromium listed is for hexavalent chromium. However, analysis performed was for total chromium.
6) Values bolded and shaded in yellow indicate compounds exceeding ME RAG.
7) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) Criteria, but less than ME RAG. (For chromium only.)
8) ND = Not detected above the reporting limit.
9) A compound is listed in the table above only if it was detected in at least one of the samples analyzed. Compounds that were analyzed for, but not detected, have been omitted.
10) * Sample SB-102D is a duplicate of Sample SB-02D.
11) ** Sample SB-106B is a duplicate of Sample SB-06B.
12) *** Sample SB-109A is a duplicate of Sample SB-09A.
13) ft = feet.
14) in = inches.

TABLE 5

SUMMARY OF VOLATILE ORGANIC COMPOUNDS
CONFIRMATION RESULTS
SUB-SLAB SOIL GAS SAMPLES
APRIL 2016
LEBLANC CLEANERS SITE
LEWISTON, MAINE

SUMMA CANISTER NO.	12567	12568	15058	15049	20858	13492
SAMPLE LOCATION	SG-01	SG-02	SG-03	SG-04	SG-05	SG-101
VOC	µg/m^3					
1,1,1-Trichloroethane	2	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	85	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	27	ND	ND
4-Ethyltoluene	ND	ND	ND	21	ND	ND
Benzene	ND	ND	ND	ND	4.5	ND
Cyclohexane	ND	ND	ND	ND	2.8	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND
Hexane	ND	ND	ND	ND	28	ND
Tetrachloroethylene (PCE)	1,900	25,000	15,600,000	1,200	2,500	2,000
Toluene	ND	ND	ND	ND	16	ND
Trichloroethylene (TCE)	8.1	1,600	120,000	ND	260	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethylene	ND	1,900	130,000	ND	25	ND
m/p-Xylenes	ND	ND	ND	ND	8.5	ND
t-1,2-Dichloroethylene	ND	ND	ND	ND	5.2	ND

SUMMA CANISTER NO.	13046	22698	14896			
SAMPLE LOCATION	AMB-01	Sewer-01	Sewer-02			
VOC	µg/m^3					
1,1,1-Trichloroethane	ND	ND	ND			
1,2,4-Trimethylbenzene	ND	ND	ND			
1,3,5-Trimethylbenzene	ND	ND	ND			
4-Ethyltoluene	ND	ND	ND			
Benzene	0.36	ND	ND			
Cyclohexane	ND	ND	ND			
Dichlorodifluoromethane	2.2	ND	ND			
Hexane	ND	ND	ND			
Tetrachloroethylene (PCE)	0.92	620	310			
Toluene	0.39	ND	ND			
Trichloroethylene (TCE)	ND	ND	42			
Trichlorofluoromethane	1.2	ND	ND			
c-1,2-Dichloroethylene	ND	ND	ND			
m/p-Xylenes	ND	ND	ND			
t-1,2-Dichloroethylene	ND	ND	220			

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Laboratory using EPA Region I Standard Operating Procedure (SOP) EIA-FLDGRAB4 - Volatile Organic Compound Analysis of Air Samples.
2) All results are reported in micrograms per cubic meter (µg/m^3). Units initially reported in parts per billion per volume, and converted to µg/m^3.
3) ND = Not detected above reporting limit.
4) VOC = Volatile Organic Compound.
5) *AMB-01 = Ambient air background sample.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-01A	SB-01B	SB-01C	SB-01D	SB-02A	SB-02B	SB-02C
		SAMPLE ID	0091MH-0001	0091MH-0002	0091MH-0003	0091MH-0004	0091MH-0005	0091MH-0006	0091MH-0007
		SAMPLE DEPTH:	0 - 1 ft	1 - 1 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	ND	ND	ND	ND	ND	81
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	1,600	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	6,100	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	110	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	10,000	6,200	1,400	ND	1,600	1,000	1,600
Trichloroethylene (TCE)	**56,000**	**850,000**	990	ND	110	ND	ND	ND	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-02D	SB-02E	SB-02F	SB-02H	SB-03A	SB-03B	SB-03C
		SAMPLE ID	0091MH-0008	0091MH-0009	0091MH-0010	0091MH-0012	0091MH-0013	0091MH-0014	0091MH-0015
		SAMPLE DEPTH:	3 - 4 ft	4 - 5 ft	5 - 6 ft	6 - 7 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	900	ND	ND	ND	25,000	53,000	56,000
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	14,000	ND	940	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	ND	ND	1,300	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	8,100	2,800	140,000	76,000	98,000	130,000 E	440,000
Trichloroethylene (TCE)	**56,000**	**850,000**	440	ND	ND	ND	16,000	37,000	**57,000**
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	ND	ND	ND	ND	ND	
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-03D	SB-04A	SB-04B	SB-04C	SB-04D	SB-04F	SB-05A
		SAMPLE ID	0091MH-0016	0091MH-0017	0091MH-0018	0091MH-0019	0091MH-0020	0091MH-0022	0091MH-0023
		SAMPLE DEPTH:	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	5 - 6 ft	0 - 1 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	150,000	ND	860	1,700	1,800	ND	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	3,700	ND	ND	ND	140	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	40,000	68	11,000	6,200	2,800	ND	1,200
Trichloroethylene (TCE)	**56,000**	**850,000**	**61,000**	ND	750	1,000	800	ND	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-05B	SB-05C	SB-05D	SB-06A	SB-06B	SB-06C	SB-06D
		SAMPLE ID	0091MH-0024	0091MH-0025	0091MH-0026	0091MH-0027	0091MH-0028	0091MH-0029	0091MH-0030
		SAMPLE DEPTH:	4 - 6 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	440	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	ND	2,100	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	1,000	1,600	ND	ND	860	ND	ND
Trichloroethylene (TCE)	**56,000**	**850,000**	180	ND	ND	ND	ND	ND	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	530	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	260	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	300	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-07A	SB-07B	SB-07C	SB-07D	SB-07EF	SB-07GH	SB-08A
		SAMPLE ID	0091MH-0031	0091MH-0032	0091MH-0033	0091MH-0034	0091MH-0035	0091MH-0036	0091MH-0037
		SAMPLE DEPTH:	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft	0 - 1 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	ND	ND	560	450	ND	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	4,500
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	170	87	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	2,500	29,000	16,000	6,000	8,800	13,000	12,000
Trichloroethylene (TCE)	**56,000**	**850,000**	ND	510	830	5,500	3,600	2,400	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	1,200	ND
Para-Isopropyltoluene	NL	NL	690	ND	ND	ND	ND	ND	7,100
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	1,100	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-08B	SB-08C	SB-08D	SB-08EF	SB-08GH	SB-09A	SB-09B
		SAMPLE ID	0091MH-0038	0091MH-0039	0091MH-0040	0091MH-0041	0091MH-0042	0091MH-0043	0091MH-0044
		SAMPLE DEPTH:	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft	0 - 1 ft	1 - 2 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	ND	ND	ND	ND	1,300	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	ND	ND	550	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	4,400	3,100	3,500	3,500	ND	4,800	5,900
Trichloroethylene (TCE)	**56,000**	**850,000**	ND	ND	420	720	ND	1,200	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	2,700	ND	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-09C	SB-09D	SB-09EF	SB-09GH	SB-10A	SB-10B	SB-10C
		SAMPLE ID	0091MH-0045	0091MH-0046	0091MH-0047	0091MH-0048	0091MH-0049	0091MH-0050	0091MH-0051
		SAMPLE DEPTH:	2 - 3 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	1,400	250	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	110	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	210	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	4,700	6,100	170	ND	ND	ND	ND
Trichloroethylene (TCE)	**56,000**	**850,000**	ND	1,300	ND	ND	ND	ND	ND
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	ND	ND	ND	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SB-10D	SB-102D*	SB-106B**	SB-109A***	SS-01	SS-02	SS-03
		SAMPLE ID	0091MH-0052	0091MH-0053	0091MH-0054	0091MH-0055	0091MH-0056	0091MH-0057	0091MH-0058
		SAMPLE DEPTH:	3 - 4 ft	3 - 4 ft	1 - 2 ft	0 - 1 ft	0 - 6 in	0 - 6 in	0 - 6 in
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	200	ND	1,700	ND	ND	ND
1,3,5-Trimethylbenzene	**35,000,000**	NL	6,800	ND	400	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**730,000**	NL	19,000	ND	2,000	ND	ND	ND	ND
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND	350	ND	ND	ND
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	ND	5,800	920	2,000	ND	ND	ND
Trichloroethylene (TCE)	**56,000**	**850,000**	ND	200	ND	660	ND	ND	ND
M/P Xylene	**7,100,000**	**10,000,000**	5,900	ND	450	ND	ND	ND	ND
Isopropylbenzene	**30,000,000**	NL	880	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND	ND	ND	ND	ND
Para-Isopropyltoluene	NL	NL	2,300	ND	300	ND	ND	ND	ND
N-Butylbenzene	**180,000,000**	NL	1,400	ND	310	ND	ND	ND	ND
Naphthalene	**1,700,000**	**10,000,000**	4,000	ND	740	ND	ND	ND	ND

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

		SAMPLE LOCATION:	SS-04	SS-05	SS-06				
		SAMPLE ID	0091MH-0059	0091MH-0060	0091MH-0061				
		SAMPLE DEPTH:	0 - 6 in	0 - 6 in	0 - 6 in				
COMPOUND	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil	µg/Kg						
cis-1,2-Dichloroethylene	**7,000,000**	**3,400,000**	ND	ND	ND				
1,3,5-Trimethylbenzene	**35,000,000**	NL	ND	ND	ND				
1,2,4-Trimethylbenzene	**730,000**	NL	ND	ND	ND				
Methylene Chloride	**9,500,000**	**10,000,000**	ND	ND	ND				
2-Propanone (acetone)	**2,000,000,000**	**10,000,000**	330	1,000	570				
Trans-1,2-Dichloroethylene	**70,000,000**	**10,000,000**	ND	ND	ND				
Tetrachloroethylene (PCE)	**1,200,000**	**10,000,000**	ND	2,000	1,100				
Trichloroethylene (TCE)	**56,000**	**850,000**	ND	ND	ND				
M/P Xylene	**7,100,000**	**10,000,000**	ND	ND	ND				
Isopropylbenzene	**30,000,000**	NL	ND	ND	ND				
Sec-Butylbenzene	**350,000,000**	NL	ND	ND	ND				
Para-Isopropyltoluene	NL	NL	2,100	2,400	5,300				
N-Butylbenzene	**180,000,000**	NL	ND	ND	ND				
Naphthalene	**1,700,000**	**10,000,000**	ND	ND	ND				

Analysis:
Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.

Note:
1) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
2) ND = Not detected at concentrations exceeding reporting limits.
3) ft = feet
4) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
5) * Sample SB-102D is a duplicate of Sample SB-02D.
6) ** Sample SB-106B is a duplicate of Sample SB-06B.
7) *** Sample SB-109A is a duplicate of Sample SB-09A.
8) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
9) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
10) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
11) The EPA RML Industrial Soil value for m-Xylene was used for M/P Xylene.
12) NL = Not Listed.
13) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-01A	SB-01B	SB-01C	SB-01D	SB-02A	SB-02B	SB-02C	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0001	0091MH-0002	0091MH-0003	0091MH-0004	0091MH-0005	0091MH-0006	0091MH-0007		
SAMPLE DEPTH:	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	ND	460	ND	900	ND	ND	ND	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	ND	1,100	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	820	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Pyrene	300	ND	ND	ND	ND	ND	ND	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	**290,000**	**35,000**
Chrysene	ND	ND	ND	ND	ND	ND	ND	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	1,400	ND	ND	ND	ND	380	ND	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	**290,000**	**35,000**
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	**2,900,000**	**3,500,000**
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	410	ND	ND	ND	ND	ND	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
14) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-02D	SB-02E	SB-02F	SB-02H	SB-03A	SB-03B	SB-03C	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0008	0091MH-0009	0091MH-0010	0091MH-0012	0091MH-0013	0091MH-0014	0091MH-0015		
SAMPLE DEPTH:	3 - 4 ft	4 - 5 ft	5 - 6 ft	6 - 7 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	ND	220	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	ND	ND	ND	660	ND	ND	340	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	ND	580	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	390	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	230	**90,000,000**	**10,000,000**
Phenanthrene	ND	ND	ND	ND	ND	720	1,300	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	350	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	ND	ND	ND	ND	ND	1,400	2,500	**90,000,000**	**10,000,000**
Pyrene	ND	ND	ND	ND	ND	1,700	2,800	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	ND	ND	ND	710	1,300	**290,000**	**35,000**
Chrysene	ND	ND	ND	ND	ND	870	1,600	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	590	ND	ND	ND	ND	ND	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	870	1,600	**290,000**	**35,000**
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	780	1,600	**2,900,000**	**3,500,000**
Benzo(a)pyrene	ND	ND	ND	ND	ND	770	1,500	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	690	**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	800	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
14) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-03D	SB-04A	SB-04B	SB-04C	SB-04D	SB-04F	SB-05A	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0016	0091MH-0017	0091MH-0018	0091MH-0019	0091MH-0020	0091MH-0022	0091MH-0023		
SAMPLE DEPTH:	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	5 - 6 ft	0 - 1 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	250	ND	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	ND	ND	480	630	410	480	ND	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	280	380	ND	210	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	290	ND	520	670	990	ND	ND	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	380	ND	970	870	1,600	ND	ND	**90,000,000**	**10,000,000**
Pyrene	400	ND	900	860	1,500	ND	ND	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	440	350	690	ND	ND	**290,000**	**35,000**
Chrysene	240	ND	630	520	970	ND	ND	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	260	ND	650	560	1,000	ND	ND	**290,000**	**35,000**
Benzo(k)fluoranthene	220	ND	530	460	920	ND	ND	**2,900,000**	**3,500,000**
Benzo(a)pyrene	220	ND	560	420	870	ND	ND	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	350	280	ND	ND	ND	**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	ND	440	360	ND	ND	ND	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
14) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-05B	SB-05C	SB-05D	SB-06A	SB-06B	SB-06C	SB-06D	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0024	0091MH-0025	0091MH-0026	0091MH-0027	0091MH-0028	0091MH-0029	0091MH-0030		
SAMPLE DEPTH:	4 - 6 ft	2 - 3 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	330	ND	ND	3,400	ND	ND	ND	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	ND	720	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	ND	ND	ND	ND	520	ND	ND	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	310	570	ND	ND	960	ND	ND	**90,000,000**	**10,000,000**
Pyrene	300	460	ND	ND	1,300	ND	ND	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	ND	ND	500	ND	ND	**290,000**	**35,000**
Chrysene	ND	ND	ND	ND	770	ND	ND	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	ND	ND	ND	ND	980	ND	ND	**290,000**	**35,000**
Benzo(k)fluoranthene	ND	ND	ND	ND	790	ND	ND	**2,900,000**	**3,500,000**
Benzo(a)pyrene	ND	ND	ND	ND	730	ND	ND	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	590	ND	ND	**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	ND	ND	ND	810	ND	ND	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
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TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-07A	SB-07B	SB-07C	SB-07D	SB-07EF	SB-07GH	SB-08A	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0031	0091MH-0032	0091MH-0033	0091MH-0034	0091MH-0035	0091MH-0036	0091MH-0037		
SAMPLE DEPTH:	0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft	0 - 1 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	ND	520	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	470 L	**9,800,000,000**	**10,000,000**
Naphthalene	ND	ND	ND	ND	ND	ND	ND	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	270	**90,000,000**	**10,000,000**
Phenanthrene	830	ND	ND	ND	ND	ND	4,200	NL	**10,000,000**
Anthracene	ND	ND	280	ND	ND	ND	730	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	560	NL	**140,000**
Fluoranthene	2,100	290	480	ND	ND	ND	6,700	**90,000,000**	**10,000,000**
Pyrene	1,800	260	450	ND	ND	ND	6,500	**68,000,000**	**10,000,000**
Butylbenzylphthalate	260	ND	ND	ND	ND	ND	1,600	**120,000,000**	**10,000,000**
Benzo(a)anthracene	980	ND	330	ND	ND	ND	2,700	**290,000**	**35,000**
Chrysene	1,300	320	470	ND	ND	ND	3,100	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	22,000	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	1,200	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	1,300	420	580	ND	ND	ND	2,400	**290,000**	**35,000**
Benzo(k)fluoranthene	1,200	340	470	ND	ND	ND	2,300	**2,900,000**	**3,500,000**
Benzo(a)pyrene	1,100	270	420	ND	ND	ND	2,300	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	600	240	260	ND	ND	ND	900	**290,000**	**35,000**
Benzo(g,h,i)perylene	660	280	290	ND	ND	ND	800	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
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TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-08B	SB-08C	SB-08D	SB-08EF	SB-08GH	SB-09A	SB-09B	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0038	0091MH-0039	0091MH-0040	0091MH-0041	0091MH-0042	0091MH-0043	0091MH-0044		
SAMPLE DEPTH:	1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 5.5 ft	5.5 - 7 ft	0 - 1 ft	1 - 2 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	290	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	ND	ND	450	ND	ND	ND	340	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	300	ND	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	1,700	820	ND	ND	ND	1,400	340	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	310	ND	NL	**140,000**
Fluoranthene	1,800	1,100	ND	ND	ND	2,800	460	**90,000,000**	**10,000,000**
Pyrene	1,800	1,100	ND	ND	ND	2,100	350	**68,000,000**	**10,000,000**
Butylbenzylphthalate	470	ND	ND	ND	ND	1,200	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	540	380	ND	ND	ND	970	ND	**290,000**	**35,000**
Chrysene	940	520	ND	ND	ND	1,300	ND	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	1,900	ND	ND	4,700	ND	2,100	340	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	880	520	ND	ND	ND	1,600	ND	**290,000**	**35,000**
Benzo(k)fluoranthene	820	470	ND	ND	ND	1,400	ND	**2,900,000**	**3,500,000**
Benzo(a)pyrene	750	500	ND	ND	ND	1,300	ND	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	440	360	ND	ND	ND	930	ND	**290,000**	**35,000**
Benzo(g,h,i)perylene	560	630	ND	ND	ND	1,000	ND	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
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TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-09C	SB-09D	SB-09EF	SB-09GH	SB-10A	SB-10B	SB-10C	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0045	0091MH-0046	0091MH-0047	0091MH-0048	0091MH-0049	0091MH-0050	0091MH-0051		
SAMPLE DEPTH:	2 - 3 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	**9,800,000,000**	**10,000,000**
Naphthalene	ND	2,100	540	ND	ND	ND	310	**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	1,600	400	ND	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	ND	480	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	ND	530	ND	ND	710	ND	ND	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	520	770	ND	ND	1,800	ND	ND	**90,000,000**	**10,000,000**
Pyrene	430	680	ND	ND	1,600	ND	ND	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	ND	ND	960	ND	ND	**290,000**	**35,000**
Chrysene	ND	380	ND	ND	1,300	ND	ND	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	530	ND	ND	530	ND	ND	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	550	360	ND	ND	1,500	ND	ND	**290,000**	**35,000**
Benzo(k)fluoranthene	440	ND	ND	ND	1,400	ND	ND	**2,900,000**	**3,500,000**
Benzo(a)pyrene	480	330	ND	ND	1,200	ND	ND	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	370	ND	ND	ND	760	ND	ND	**290,000**	**35,000**
Benzo(g,h,i)perylene	410	ND	ND	ND	1,100	ND	ND	NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
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TABLE 7

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-10D	SB-102D*	SB-106B**	SB-109A***	SS-01	SS-02	SS-03	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0052	0091MH-0053	0091MH-0054	0091MH-0055	0091MH-0056	0091MH-0057	0091MH-0058		
SAMPLE DEPTH:	3 - 4 ft	3 - 4 ft	1 - 2 ft	0 - 1 ft	0 - 6 in	0 - 6 in	0 - 6 in		
COMPOUND									
Acenaphthylene	ND	ND	ND	ND	3,900	ND	ND	NL	**10,000,000**
Benzoic acid	ND	ND	ND	770	ND	ND	940	**9,800,000,000**	**10,000,000**
Naphthalene	2,000	ND	3,900	ND	ND	ND	ND	**1,700,000**	**10,000,000**
2-Methylnaphthalene	490	ND	ND	ND	ND	ND	ND	**9,000,000**	**360,000**
1-Methylnaphthalene	290	ND	ND	ND	ND	ND	ND	**7,300,000**	NL
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND	ND	ND	ND	ND	**90,000,000**	**10,000,000**
Phenanthrene	ND	ND	ND	1,000	13,000	6,700	1,700	NL	**10,000,000**
Anthracene	ND	ND	ND	ND	ND	ND	ND	**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND	ND	ND	ND	ND	NL	**140,000**
Fluoranthene	ND	ND	ND	2,300	25,000	16,000	3,700	**90,000,000**	**10,000,000**
Pyrene	ND	ND	1,400	2,000	35,000	18,000	3,000	**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	ND	ND	2,400	ND	3,800	680	**120,000,000**	**10,000,000**
Benzo(a)anthracene	ND	ND	ND	770	12,000	8,600	1,400	**290,000**	**35,000**
Chrysene	ND	ND	ND	1,100	17,000	9,700	2,000	**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	6,000	640	**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	ND	ND	ND	1,100	10,000	9,700	2,100	**290,000**	**35,000**
Benzo(k)fluoranthene	ND	ND	ND	1,000	9,200	9,900	1,800	**2,900,000**	**3,500,000**
Benzo(a)pyrene	ND	ND	ND	920	**11,000**	**8,900**	1,600	**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	ND	810	6,600	6,200	900	**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	ND	ND	950	9,300	7,100	990	NL	**10,000,000**

NOTES:

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2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
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SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SS-04	SS-05	SS-06					EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0059	0091MH-0060	0091MH-0061						
SAMPLE DEPTH:	0 - 6 in	0 - 6 in	0 - 6 in						
COMPOUND									
Acenaphthylene	ND	ND	ND					NL	**10,000,000**
Benzoic acid	ND	ND	ND					**9,800,000,000**	**10,000,000**
Naphthalene	ND	ND	ND					**1,700,000**	**10,000,000**
2-Methylnaphthalene	ND	ND	ND					**9,000,000**	**360,000**
1-Methylnaphthalene	ND	ND	ND					**7,300,000**	NL
Acenaphthene	ND	ND	ND					**1,400,000,000**	**10,000,000**
Fluorene	ND	ND	ND					**90,000,000**	**10,000,000**
Phenanthrene	5,700	2,200	14,000					NL	**10,000,000**
Anthracene	ND	ND	ND					**680,000,000**	**10,000,000**
Carbazole	ND	ND	ND					NL	**140,000**
Fluoranthene	12,000	4,700	19,000					**90,000,000**	**10,000,000**
Pyrene	9,100	5,100	16,000					**68,000,000**	**10,000,000**
Butylbenzylphthalate	ND	420	ND					**120,000,000**	**10,000,000**
Benzo(a)anthracene	4,900	1,700	7,600					**290,000**	**35,000**
Chrysene	6,000	2,300	8,300					**29,000,000**	**350,000**
Bis(2-ethylhexyl)phthalate	ND	ND	ND					**16,000,000**	**210,000**
Di-n-octyl phthalate	ND	ND	ND					**25,000,000**	**10,000,000**
Benzo(b)fluoranthene	5,500	2,300	6,900					**290,000**	**35,000**
Benzo(k)fluoranthene	5,600	2,000	6,800					**2,900,000**	**3,500,000**
Benzo(a)pyrene	**4,500**	1,800	**6,300**					**29,000**	**3,500**
Indeno(1,2,3-cd)pyrene	ND	ND	ND					**290,000**	**35,000**
Benzo(g,h,i)perylene	ND	ND	3,200					NL	**10,000,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAS3, BNAs in Soil Medium Level.
2) All Results in micrograms per Kilogram (µg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{4}. Units in µg/Kg.
6) * Sample SB-102D is a duplicate of Sample SB-02D.
7) ** Sample SB-106B is a duplicate of Sample SB-06B.
8) *** Sample SB-109A is a duplicate of Sample SB-09A.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Soil Worker.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) L = Estimated value is below the calibration range.
14) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 8

SUMMARY OF METALS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-01B	SB-03B	SB-04A	SB-04C	SB-05D	SB-06B	SB-07C	EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0002	0091MH-0014	0091MH-0017	0091MH-0019	0091MH-0026	0091MH-0028	0091MH-0033		
SAMPLE DEPTH:	1 - 2 ft	1 - 2 ft	0 - 1 ft	2 - 3 ft	3 - 4 ft	1 - 2 ft	2 - 3 ft		
METAL	mg/Kg								
Silver	7.6	1.7	ND	4.3	ND	4.2	ND	**18,000**	**850**
Aluminum	20,000	18,000	9,700	13,000	26,000	11,000	23,000	**340,000**	**1,000,000**
Arsenic	**15**	**14**	**10**	**13**	**9.7**	**18**	**14**	**300**	**4.2**
Barium	460	210	36	160	150	250	170	**650,000**	**10,000**
Beryllium	1.4	1.0	ND	ND	ND	1.0	ND	**7,300**	**340**
Calcium	**17,000**	4,500	3,300	4,100	5,300	4,100	4,300	**6,900**	**NL**
Cadmium	2.4	ND	ND	ND	ND	1.6	ND	**2,900**	**94**
Cobalt	8.9	14	26	8.9	12	9.4	13	**1,000**	**510**
Chromium	57	39	21	41	47	40	51	**630**	**10000** †
Copper	140	50	17	87	78	120	69	**140,000**	**10,000**
Iron	20,000	22,000	12,000	19,000	30,000	18,000	29,000	**2,500,000**	**1,000,000**
Magnesium	5,900	5,400	3,300	4,200	6,700	3,000	6,900	**NL**	**NL**
Manganese	690	330	200	310	410	230	420	**77,000**	**10,000**
Nickel	27	29	22	26	30	25	36	**NL**	**5,100**
Lead	580	120	4.7	190	**2,300**	220	150	**800**	**1,100**
Antimony	2 J1	ND	ND	ND	ND	ND	ND	**1,400**	**680**
Vanadium	39	40	21	35	51	31	51	**17,000**	**10,000**
Zinc	610	170	26	220	300	280	250	**1,100,000**	**10,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-OPTIMAS0, Metals in Soil Medium Level by ICP.
2) All results in milligrams per Kilogram (mg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) in = inches
6) † = ME RAG value for chromium listed is for chromium (+3) while the EPA RML value for chromium listed is for hexavalent chromium. However, analysis performed was for total chromium.
7) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units converted to mg/Kg.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) A metal is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.
14) J1 = Estimated value due to MS recovery outside acceptance criteria.

TABLE 8

SUMMARY OF METALS CONFIRMATION RESULTS
SOIL SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	SB-08B	SB-09B	SB-10A	SB-10D	SB-106B**	SS-01		EPA RML (HQ=3) Industrial Soil	ME RAG Commercial Soil
SAMPLE ID	0091MH-0038	0091MH-0044	0091MH-0049	0091MH-0052	0091MH-0054	0091MH-0056			
SAMPLE DEPTH:	1 - 2 ft	1 - 2 ft	0 - 1 ft	3 - 4 ft	1 - 2 ft	0 - 6 in			
METAL	mg/Kg								
Silver	3.0	10	ND	ND	3.4	ND		**18,000**	**850**
Aluminum	23,000	18,000	13,000	15,000	11,000	11,000		**340,000**	**1,000,000**
Arsenic	**11**	**12**	ND	**7.8**	**17**	**13**		**300**	**4.2**
Barium	190	260	240	60	230	46		**650,000**	**10,000**
Beryllium	ND	1.0	ND	ND	1.0	ND		**7,300**	**340**
Calcium	3,800	3,700	**7,300**	2,500	4,100	2,300		**6,900**	**NL**
Cadmium	ND	3.4	ND	ND	1.5	ND		**2,900**	**94**
Cobalt	11	10	ND	10	9.0	5.4		**1,000**	**510**
Chromium	53	68	250	35	37	41		**630**	**10,000**
Copper	100	110	350	21	130	28		**140,000**	**10,000**
Iron	25,000	23,000	20,000	18,000	16,000	17,000		**2,500,000**	**1,000,000**
Magnesium	7,000	8,200	4,000	5,200	2,900	3,600		**NL**	**NL**
Manganese	400	360	210	220	190	180		**77,000**	**10,000**
Nickel	33	33	25	28	24	21		**NL**	**5,100**
Lead	170	430	660	16	210	500		**800**	**1,100**
Antimony	ND	ND	ND	ND	ND	ND		**1,400**	**680**
Vanadium	47	42	28	36	30	46		**17,000**	**10,000**
Zinc	330	550	8,100	160	260	610		**1,100,000**	**10,000**

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-OPTIMAS0, Metals in Soil Medium Level by ICP.
2) All results in milligrams per Kilogram (mg/Kg). Results reported on a dry weight basis.
3) ND = Not detected above reporting limit.
4) ft = feet
5) in = inches
6) ǂ = ME RAG value for chromium listed is for chromium (+3) while the EPA RML value for chromium listed is for hexavalent chromium. However, analysis performed was for total chromium.
7) EPA RML = EPA Removal Management Levels for Industrial Soil. Used RML table where Hazard Quotient (HQ) = 3 and Target Risk (TR) = 10^{-4}. Units converted to mg/Kg.
8) ** Sample SB-106B is a duplicate of Sample SB-06B.
9) ME RAG = Maine Remedial Action Guidelines for a Commercial Worker Exposure Scenario.
10) Values bolded and shaded in yellow indicate compounds exceeding ME RAGs for Commercial Soil.
11) Values bolded and shaded in red indicate compounds exceeding EPA RML (HQ = 3) for Industrial Soil.
12) NL = Not Listed.
13) A metal is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.
14) J1 = Estimated value due to MS recovery outside acceptance criteria.

TABLE 9

SUMMARY OF VOLATILE ORGANIC COMPOUNDS RESULTS
DRUM PRODUCT SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	DP-01	DP-02	DP-03	DP-04	DP-05		
SAMPLE ID	0091MH-0090	0091MH-0091	0091MH-0092	0091MH-0093	0091MH-0094		
COMPOUND	µg/Kg						
2-Propanone (acetone)	ND	19,000	ND	ND	ND		
Tetrachloroethylene (PCE)	ND	190,000	ND	ND	ND		

NOTES:
1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-VOAGCMS9, VOAs in Soil High Level Method.
2) All Results in micrograms per Kilogram (µg/Kg).
3) ND = Not detected.
4) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

TABLE 10

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUNDS RESULTS
DRUM PRODUCT SAMPLES
LEBLANC CLEANERS
LEWISTON, MAINE

SAMPLE LOCATION:	DP-01	DP-02	DP-03	DP-04	DP-05		
SAMPLE ID	0091MH-0090	0091MH-0091	0091MH-0092	0091MH-0093	0091MH-0094		
COMPOUND	mg/Kg						
Butylbenzylphthalate	ND	ND	ND	ND	88		
Benzo(b)fluoranthene	ND	ND	ND	ND	120		
Benzo(k)fluoranthene	ND	ND	ND	ND	83		

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I Standard Operating Procedure (SOP) EIASOP-BNAP3, BNAs in Product.
2) All Results in milligrams per Kilogram (mg/Kg).
3) ND = Not detected.
4) A compound is listed only if it was detected in at least one of the samples. Compounds that were analyzed for, but not detected, have been omitted.

Appendix C

Photodocumentation Log

PHOTODOCUMENTATION LOG
LeBlanc Cleaners ● Lewiston, Maine

SCENE: View of sub-slab soil gas well SG-01.

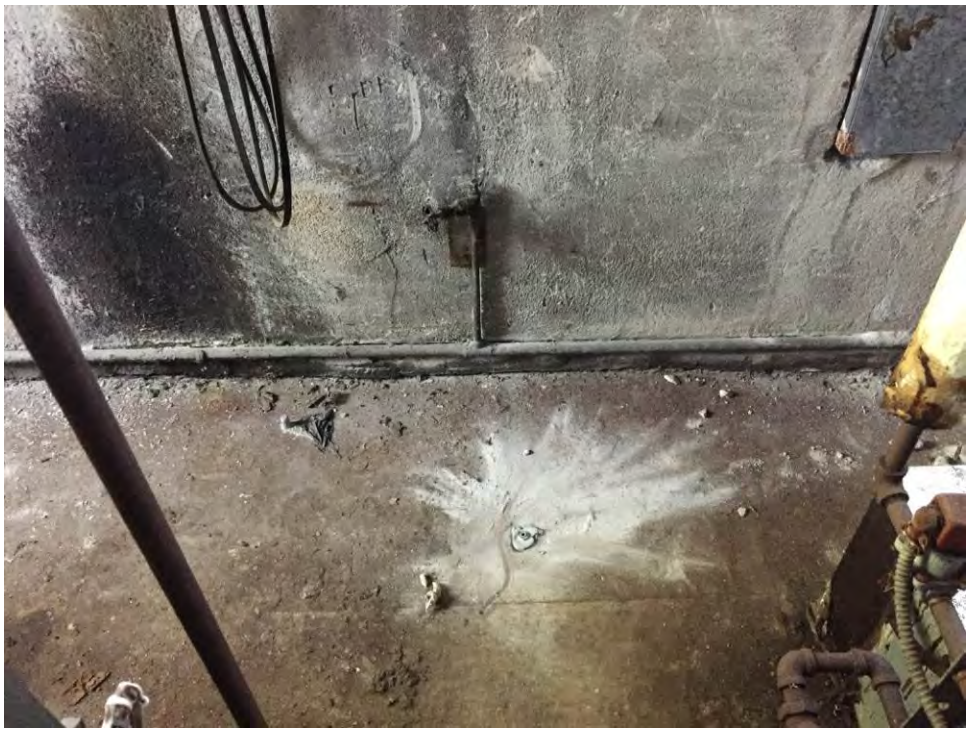
DATE: 28 April 2016 **TIME:** 0947 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of sub-slab soil gas well SG-01.

DATE: 28 April 2016 **TIME:** 0947 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of sub-slab soil gas well SG-02.

DATE: 28 April 2016 **TIME:** 1007 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6



SCENE: View of sub-slab soil gas well SG-03.

DATE: 28 April 2016 **TIME:** 1026 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-02.

DATE: 28 April 2016 **TIME:** 1028 hours
PHOTOGRAPHER: C. Dupree **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-03.

DATE: 28 April 2016 **TIME:** 1028 hours
PHOTOGRAPHER: C. Dupree **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-04.

DATE: 28 April 2016 **TIME:** 1028 hours
PHOTOGRAPHER: C. Dupree **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-05.

DATE: 28 April 2016 **TIME:** 1029 hours
PHOTOGRAPHER: C. Dupree **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-06.

DATE: 28 April 2016 **TIME:** 1029 hours
PHOTOGRAPHER: C. Dupree **CAMERA:** iPhone 6

SCENE: View of sub-slab soil gas well SG-04.

DATE: 28 April 2016 **TIME:** 1043 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of sub-slab soil gas well SG-05.

DATE: 28 April 2016 **TIME:** 1043 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of soil boring SB-10 during soil classification and sampling activities. Photograph taken facing north.

DATE: 28 April 2016 **TIME:** 1547 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing north.

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing north

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing northeast.

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing east.

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing southeast.

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the boiler room. Photograph taken facing northwest.

DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the various drums, containers and aboveground storage tanks (ASTs) in the boiler room. Photograph taken facing southwest.
DATE: 28 April 2016 **TIME:** 1603 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of drum product sample location DP-01. Photograph taken facing northwest.

DATE: 28 April 2016 **TIME:** 1604 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

PHOTODOCUMENTATION LOG
LeBlanc Cleaners ● Lewiston, Maine

SCENE: View of drum product sample location DP-02 and various containers of solvents and detergents adjacent to the dry cleaning machines.
DATE: 28 April 2016 **TIME:** 1605 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of one of the containers with a “tetrachloroethylene” label.

DATE: 28 April 2016 **TIME:** 1606 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of drum product sample location DP-03 next to the dry cleaning machines. Photograph taken facing northwest.

DATE: 28 April 2016 **TIME:** 1606 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the overpacked containers of solvents that included tetrachloroethylene. Photograph taken facing north.
DATE: 28 April 2016 **TIME:** 1608 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the interior of the dry cleaning building. Photograph taken facing southeast.

DATE: 28 April 2016 **TIME:** 1608 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the southeast corner of the dry cleaning building. Photograph taken facing northeast.

DATE: 28 April 2016 **TIME:** 1613 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the northeastern side of the dry cleaning building. Photograph taken facing northwest.

DATE: 28 April 2016 **TIME:** 1614 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the northwestern side of the dry cleaning building. Photograph taken facing southwest.

DATE: 28 April 2016 **TIME:** 1614 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the storage shed on the southwestern side of the site. Photograph taken facing north.

DATE: 29 April 2016 **TIME:** 0759 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the northwestern side of the boiler room building and storage shed. Photograph taken facing northeast.

DATE: 29 April 2016 **TIME:** 0900 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of drum product sample DP-04.

DATE: 29 April 2016 **TIME:** 0907 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of drum product sample DP-05.

DATE: 29 April 2016 **TIME:** 0907 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of the driveway/parking area between the storage shed and the dry cleaning building. Photograph taken facing southwest.
DATE: 29 April 2016 **TIME:** 0908 hours
PHOTOGRAPHER: K. Robinson **CAMERA:** iPhone 6

SCENE: View of soil boring location SB-07 along the northwestern side of the dry cleaning building. Photograph taken facing northeast.
DATE: DD April 2016 **TIME:** 0919 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

PHOTODOCUMENTATION LOG
LeBlanc Cleaners ● Lewiston, Maine

SCENE: View of surface soil sample SS-10. Photograph taken facing southeast.

DATE: 29 April 2016 **TIME:** 0936 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

SCENE: View of the floor drain in the boiler room from which air sample Sewer-01 was collected. Photograph taken facing southwest.
DATE: 29 April 2016 **TIME:** 1215 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

PHOTODOCUMENTATION LOG
LeBlanc Cleaners ● Lewiston, Maine

SCENE: View of the storm drain in the driveway from which air sample Sewer-02 was collected. Photograph taken facing southeast.
DATE: 29 April 2016 **TIME:** 1216 hours
PHOTOGRAPHER: A. Danikas **CAMERA:** iPhone 6

Appendix D

Boring Logs

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-01	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 27, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	24 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	30	0 - 4" Yellow and gray, coarse-to-medium SAND, some medium gravel. Dry. 4 - 10" Brown and gray SILT. 10 - 15" Brown and black SILT and medium-to-fine SAND, little organics (peat). Wet. 15 - 23" Blue and gray CLAY. Strong petroleum odor.	SB-01A (3 inch)**	9.3	PCE = 4,630 TCE = 517
2_			SB-01B (11 inch)**		PCE = 4,330 TCE = 133
3_			SB-01C (19 inch)**		PCE = 823 TCE = 40
4_			SB-01D (26 inch)**		PCE = ND (20) TCE = ND (40)
		-End of Boring = 4 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-01A, SB-01B, SB-01C, SB-01D

Confirmation samples for metals collected from:

NERL SB-01A, SB-01B, SB-01C, SB-01D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-02	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 27, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	62 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	30	0 - 16" Brown and yellow, medium-to-fine SAND, little coarse gravel. Dry. 16 - 30" Brown and yellow, coarse-to-medium SAND, trace coarse gravel. Dry.	SB-02A (7.5 inch)**	0	PCE = 1,780 TCE = ND (40)
2_			SB-02B (15 inch)**		PCE = 1,080 TCE = ND (40)
3_			SB-02C (22.5 inch)**		PCE = 1,760 TCE = ND (40)
4_			SB-02D (30 inch)**		PCE = 5,820 TCE = 245
5_	32	0 - 12" Brown and yellow, medium SAND, little fine sand, trace coarse gravel. Wet. 12 - 18" Gray, SILT, little fine sand. 18 - 32" Blue and gray, CLAY, trace silt.	SB-02E (8 inch)**	400	PCE = 4,610 TCE = 109
6_			SB-02F (16 inch)**		PCE = 163,000 TCE = 4,890
7_			SB-02G (24 inch)**		PCE = 116,000 TCE = 5,310
8_		**-End of Boring = 7 feet below ground surface-**	SB-02H (32 inch)**		PCE = 71,500 TCE = 4,330

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

mL = Milliliter

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-02A, SB-02B, SB-02C, SB-02D

Confirmation samples for metals collected from:

NERL SB-02A, SB-02B, SB-02C, SB-02D

Duplicate collected on D interval: SB-102D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-03	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 27, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	26 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	26	0 - 4" Yellow and gray, medium-to-fine SAND, little coarse gravel.	SB-03A (6 inch)**	0	PCE = 55,400 TCE = 9,670
		4 - 9" Black and gray, SILT, trace medium gravel, trace organics (wood debris).			
2_		9 - 12" Black and gray, GRAVEL (slag and ash).	SB-03B (12 inch)**		PCE = 93,100 TCE = 22,900
		12 - 15" Black and gray, SILT, trace fine sand, trace organics (wood debris).			
3_		15 - 19" White and gray, medium SAND and coarse gravel.	SB-03C 18 inch)**		PCE = 477,000 TCE = 57,300
		19 - 21" Brown and gray, SILT, some fine sand.			
4_		20 - 23" White and gray, coarse-to-medium SAND and coarse gravel.	SB-03D (24 inch)**		PCE = 24,500 TCE = 20,700
		23 - 26" Brown and gray, SILT, some fine sand.			
		-End of Boring = 4 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-03A, SB-03B, SB-03C, SB-03D

Confirmation samples for metals collected from:

NERL SB-03A, SB-03B, SB-03C, SB-03D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-04	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 27, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	46 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	28	0 - 9" Yellow and brown, medium-to-fine SAND, trace coarse gravel.	SB-04A (7 inch)**	0	PCE = 108 TCE = ND (40)
2_		9 - 14" Brown and gray, SILT, trace fine sand.	SB-04B (14 inch)**		PCE = 7,240 TCE = 634
3_		14 - 16" Black and gray, GRAVEL (slag and ash), some medium-to-fine sand.	SB-04C (21 inch)**		PCE = 2,790 TCE = 467
4_		16 - 23" Brown and gray, SILT, trace gravel (brick, nails, glass). 23 - 28" Brown and gray, SILT, trace fine sand. Moist.	SB-04D (28 inch)**		PCE = 1,380 TCE = 353
5_	18	0 - 4" Brown and gray, medium-to-fine SAND, little coarse gravel. Wet.	SB-04E (9 inch)**	0	PCE = 21 TCE = ND (40)
6_		4 - 13" Gray and blue, SILT and fine SAND. Moist.	SB-04F (18 inch)**		PCE = ND (20) TCE = ND (40)
7_		13 - 18" Gray and blue, SILT and fine SAND trace medium sand. Moist. Mild petroleum odor.			
8_		**-End of Boring = 6 feet below ground surface-**			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

mL = Milliliter

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-04A, SB-04B, SB-04C, SB-04D

Confirmation samples for metals collected from:

NERL SB-04A, SB-04B, SB-04C, SB-04D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-05	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	36 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	36	0 - 4" Yellow and gray, medium-to-fine SAND, some coarse gravel.	SB-05A (9 inch)**	0	PCE = 223 TCE = ND (80)
2_		4 - 17" Dark gray, SILT, trace gravel (slag and ash), trace coarse gravel. Moist.	SB-05B (18 inch)**		PCE = 227 TCE = ND (80)
3_		17 - 21" Yellow and brown, fine SAND. Wet.	SB-05C (27 inch)**		PCE = 476 TCE = ND (80)
4_		21 -22" Black and medium SAND, trace gravel (nails and glass). Wet.	SB-05D (36 inch)**		PCE = ND (40) TCE = ND (80)
		22 - 32" Gray, SILT, little medium gravel, trace organics.			
		32 - 36" Blue and gray, SILT, trace clay.			
		-End of Boring = 4 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-05A, SB-05B, SB-05C, SB-05D

Confirmation samples for metals collected from:

NERL SB-05A, SB-05B, SB-05C, SB-05D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-06	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	38 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	38	0 - 6" Yellow, coarse-to-medium SAND, trace coarse gravel. Wet.	SB-06A (7 inch)**	115	PCE = ND (40) TCE = ND (80)
		6 - 8" Gray and brown, SILT and fine SAND.			
2_		8 - 14" Gray and brown, fine SAND and SILT, trace medium gravel, trace organics. Strong solvent odor.	SB-06B (24 inch)**		PCE = 297 TCE = ND (80)
3_		14 - 20" Brown and gray, fine SAND, trace silt, trace organics, trace gravel (slag).	SB-06C (30 inch)**		PCE = ND (40) TCE = ND (80)
		20 - 22" Black and gray, medium GRAVEL and fine SAND.	SB-06D (38 inch)**		PCE = ND (40)
4_		22 - 38" Blue and gray, SILT, little clay, trace organics. Strong petroleum odor.			TCE = ND (80)
		-End of Boring = 4 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-06A, SB-06B, SB-06C, SB-06D

Confirmation samples for metals collected from:

NERL SB-06A, SB-06B, SB-06C, SB-06D

Duplicate collected on B interval: SB-106B

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-07	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	79 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	45	0 - 4" Brown and gray, SILT and fine SAND, little organics (roots), trace fine gravel.	SB-07A (11 inch)**	170	PCE = 340 TCE = ND (40)
2_		4 - 20" Brown and gray, SILT and fine SAND, trace gravel (brick and ash), trace organics.	SB-07B (22 inch)**		PCE = 3,870 TCE = 149
3_		20 - 30" Brown and gray, SILT and coarse SAND. 30 - 36" Brown and gray, SILT and fine SAND, trace fine gravel. Wet.	SB-07C (33 inch)**		PCE = 4,490 TCE = 330
4_		36 - 41" Brown and gray, SILT and fine SAND, trace organics. 41 - 45" Blue and gray, SILT and CLAY, trace organics. Strong petroleum odor.	SB-07D (44 inch)**		PCE = 1,470 TCE = 1,153
5_	34	0 - 8" Gray, SILT and fine SAND. Very wet. 8 - 34" Blue and gray, SILT and fine SAND. Strong petroleum odor.	SB-07EF (17 inch)**	76	PCE = 1,560 TCE = 575
6_			SB-07GH (34 inch)**		PCE = 5,470 TCE = 1,414
7_					
8_		**-End of Boring = 7 feet below ground surface-**			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

mL = Milliliter

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-07A, SB-07B, SB-07C, SB-07D

Confirmation samples for metals collected from:

NERL SB-07A, SB-07B, SB-07C, SB-07D

Matrix spike/Matrix spike duplicate collected on C interval

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-08	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	66 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	32	0 - 6" Yellow and brown, SILT and fine SAND, trace fabric debris, trace organics.	SB-08A (8 inch)**	0	PCE = 517 TCE = ND (100)
2_		6 - 10" Brown and gray, SILT, trace fine sand. 10 - 17" Black and brown, SILT, trace fine sand.	SB-08B (16 inch)**		PCE = 1,660 TCE = ND (100)
3_		17 - 30" Dark gray, SILT, trace fine sand, trace organics.	SB-08C (24 inch)**		PCE = 1,900 TCE = ND (100)
4_		30 - 32" Yellow and brown, coarse SAND and SILT. Wet.	SB-08D (32 inch)**		PCE = 1,770 TCE = 166
5_	34	0 - 8" Gray, SILT and fine sand. Very wet. 8 - 24" Brown and gray, SILT and fine SAND. 24 - 32" Blue and gray, SILT and medium SAND, trace coarse gravel.	SB-08EF (17 inch)**	0.5	PCE = 2,920 TCE = 433
6_		32 - 34" Brown and yellow, coarse SAND and SILT, trace medium gravel.	SB-08GH (34 inch)**		PCE = ND (25) TCE = ND (100)
7_					
8_		**-End of Boring = 7 feet below ground surface-**			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

mL = Milliliter

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-08A, SB-08B, SB-08C, SB-08D

Confirmation samples for metals collected from:

NERL SB-08A, SB-08B, SB-08C, SB-08D

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-09	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	69 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	37	0 - 10" Gray and brown, SILT and fine SAND, trace coarse gravel, trace organics.	SB-09A (9 inch)**	0	PCE = 5,770 TCE = 1,360
2_		10 - 17" Brown and black SILT and fine SAND, trace organics, trace gravel (slag).	SB-09B (18 inch)**		PCE = 2,730 TCE = ND (100)
3_		17 - 37" Brown and gray, SILT and fine SAND, trace coarse gravel, trace organics, trace gravel (glass and metal).	SB-09C (27 inch)**		PCE = 1,520 TCE = 1,060
4_		30 - 32" Yellow and brown, coarse SAND and SILT. Wet.	SB-09D (36 inch)**		PCE = 5,730 TCE = ND (100)
5_	32	0 - 9" Black and gray, medium SAND, trace organics, trace coarse gravel. Very wet.	SB-09EF (16 inch)**	0	PCE = 100 TCE = ND (100)
6_		9 - 22" Gray and brown, SILT and fine SAND, trace organics.	SB-09GH (32 inch)**		PCE = ND (25) TCE = ND (100)
7_		22 - 27" Gray and brown, SILT, little coarse gravel.			
8_		27 - 32" Red and brown, medium SAND and SILT, trace coarse gravel.			
		-End of Boring = 8 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

mL = Milliliter

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-09A, SB-09B, SB-09C, SB-09D

Confirmation samples for metals collected from:

NERL SB-09A, SB-09B, SB-09C, SB-09D

Duplicate sample collected on A interval: SB-109A.

Weston Solutions, Inc.	SOIL BORING LOG			Page 1 of 1	
Project	LeBlanc Cleaners	**Boring ID**	SB-10	**Groundwater Levels**	
Location	Lewiston, Maine	**Well ID**	NA	**Date**	**Depth**
Date Drilled	April 28, 2016	**Drilling Method**	Direct Push	NA	NA
Drilling Company	Weston Solutions, Inc.	**Sampling Method**	4-ft. Macrocore		
Operator	E. Ackerman/K. Robinson	**Completion Depth**	36 inches		
Drill Rig	Pneumatic Hammer	**Surface Elevation**	NA		
Logged by	Andrew Danikas - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Recovery (inches)	Soil Description*	Sample Number	PID Reading (ppm)	PCE/TCE Field Screening Results (ppb)
1_	36	0 - 10" Brown and black, SILT and fine SAND, little coarse gravel, trace gravel (ash).	SB-10A (9 inch)**	485	PCE = ND (25) TCE = ND (100)
2_		10 - 25" Brown and gray, SILT and fine SAND, trace organics, trace coarse gravel.	SB-10B (18 inch)**		PCE = ND (25) TCE = ND (100)
3_		25 - 36" Blue and gray, SILT and fine SAND, trace coarse gravel, trace organics. Strong petroleum odor.	SB-10C (27 inch)**		PCE = ND (25) TCE = ND (100)
4_			SB-10D (36 inch)**		PCE = ND (25) TCE = ND (100)
		-End of Boring = 4 feet below ground surface-			

Notes:

* = Burmister Soil Classification System

** = VOC sample collected from this interval

PCE = Tetrachloroethylene

TCE = Trichloroethylene

ppb = parts per billion

ppm = parts per million

ND (XX) = Not detected with reporting limit in parentheses

NA = Not Applicable

PID = MultiRAE Systems Photoionization Detector

NERL = New England Regional Laboratory

Proportions used by Dry Weight
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Confirmation samples for volatile organic compounds (VOCs) collected from:

NERL SB-10A, SB-10B, SB-10C, SB-10D

Confirmation samples for metals collected from:

NERL SB-10A, SB-10B, SB-10C, SB-10D

Appendix E

Site Conceptual Model

CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) was developed for the LeBlanc Cleaners Site, located in Lewiston, Maine based on data collected during the U.S. Environmental Protection Agency (EPA) Preliminary Assessment/Site Investigation (PA/SI) and from previous investigations conducted at the site.

The topography of the site is generally flat. Based on a well survey conducted following the installation of monitoring wells on the site, the topography on the site slopes slightly (approximately 1 foot) from east to west. The topography in the area surrounding the site generally slopes downward to the north, towards the Jepson Brook. Based on the Lewiston, Maine United States Geological Survey (USGS) Quadrangle map, the general elevation of the site is approximately 248 feet above mean sea level.

Based on previous investigations, the soils at the site and in the immediate vicinity of the site have been classified as Hartland. Hartland soil generally consists of very fine sandy loam, having moderate infiltration rates. Soils are moderately well to well-drained with moderately coarse textures. Surficial soils have been described as glacial till, generally characterized as a heterogeneous mixture of sand, silt, clay, and gravel.

Bedrock beneath the site has been identified as the Silurian age Sangerville Formation, a marble and calcium-bearing silicate rock. The depth and configuration of bedrock surface beneath the site is unknown.

Based on previous investigation reports, the site appears to be located within same watershed as Jepson Brook, and based on the regional topography, the localized groundwater flow is presumed to be generally to the north/northeast, towards Jepson Brook. However, groundwater flow direction at the site cannot be confirmed without a groundwater elevation survey. Shallow groundwater flow may also be influenced by underground utilities, heterogeneous subsurface soil strata, and/or other subsurface structures, which may act as preferential pathways. Storm drains, water lines, and sewer lines run beneath Lafayette Street.

Well survey data from monitoring wells that were installed on the site during a previous investigation indicate that depths to groundwater beneath the site range from approximately 4.5 to 9.0 feet bgs; and that the primary flow of groundwater is to the west towards the Androscoggin River. However, the well survey data contradicts this statement, and indicates that the primarily direction of groundwater flow is toward the east.

Contaminants of concern at the site are primarily volatile organic compounds (VOCs), mainly tetrachloroethylene (PCE), trichloroethylene (TCE), and cis-1,2 dichloroethylene (cis-1,2-DCE). The primary area of concern is the former location of the dry cleaning machines located at the rear of the main building. A release of PCE and possibly other chlorinated VOCs occurred in the main building where the dry cleaning machines were located and outside of the rear portion of the main building. During the PA/SI investigation, PCE, TCE, and cis-1,2-DCE-soil contamination was found to depths of 8 feet below the floor surface inside the main building. This contamination occurs in the vadose zone and within the saturated zone. Sub-slab soil gas data collected during the PA/SI also identified an area of PCE, TCE, and cis-1,2-DCE

contamination toward the rear of the main building, in the same location as the former dry cleaning machines.

VOCs detected in groundwater beneath the site include PCE; TCE; cis-1,2-DCE; trans-1,2 dichloroethylene (trans-1,2-DCE), and vinyl chloride. Several non-chlorinated VOCs were also detected in groundwater in an area southwest of the main building. These are most likely a result of the USTs that were historically located behind and in front of the current boiler room which were used for fuel oil storage. Based on the limited groundwater quality data available, the migration of VOCs in groundwater could not be determined.

An indoor air sample collected during a previous investigation indicated that six chlorinated VOCs (PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; 1,2-dichlorethane (1,2-DCA), and vinyl chloride) were detected in the sample. PCE was detected at concentrations exceeding the Maine Indoor Air Commercial values.

Due to the presence of cracks in the building foundation elevated concentrations of VOCs in the soil and groundwater, and the shallow position of the water table, it is likely that PCE, TCE and other VOCs are vaporizing and migrating upward in the building. VOCs are also vaporizing and migrating upward in the area behind the building.

A northwest-to-southeast cross section across the site was prepared to display the areas of known contamination. The line of section is shown in Figure A and the cross section is shown in Figure B. Releases of chlorinated VOCs have occurred at the site and have impacted surface and subsurface soil, groundwater, soil gas, and indoor air. The probable sources for the chlorinated VOCs are from the dry cleaning operations, handling and storage of dry cleaning solvents, and ventilation from the dry cleaning machines. The impacted locations include the concrete slab below the dry cleaning machines and other associated equipment inside the main building, and the area behind the main building where the dry cleaning machine vents are located.

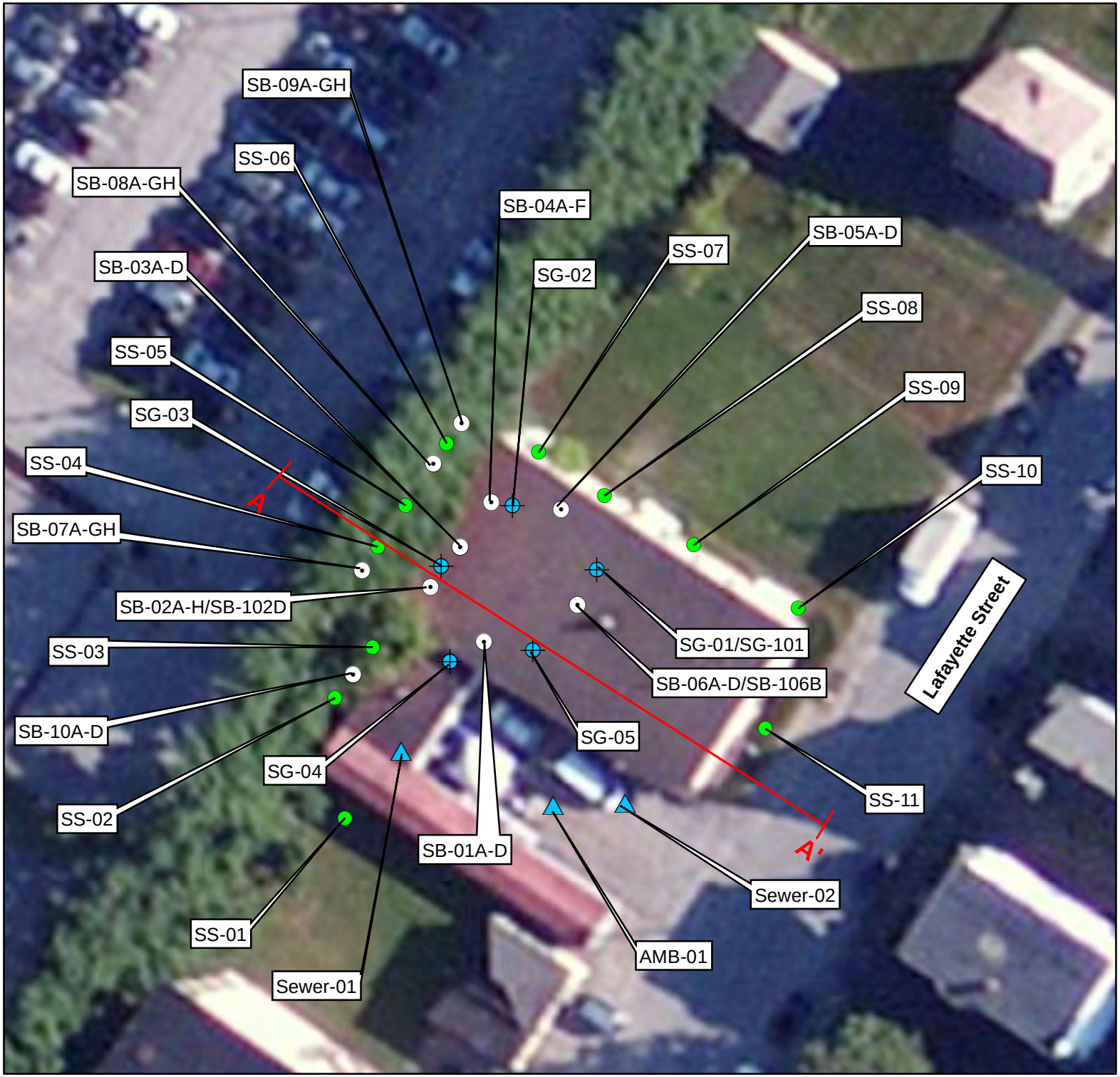


Figure A

A - A' Transect Map

LeBlanc Cleaners
10 Lafayette Street
Lewiston, Maine

EPA Region I
Superfund Technical Assessment and Response Team (START) IV
Contract No. EP-S3-15-01

TDD Number:	TO1-01-16-02-0003
Created by:	A. Danikas
Created on:	22 February 2016
Modified by:	K. Robinson
Modified on:	21 July 2016

Legend

- Surface Soil Sample
- Soil Boring Sample
- Soil Gas Sample
- Air Sample
- A — A' Line of Section in Figure B

N

0 25 50 Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START

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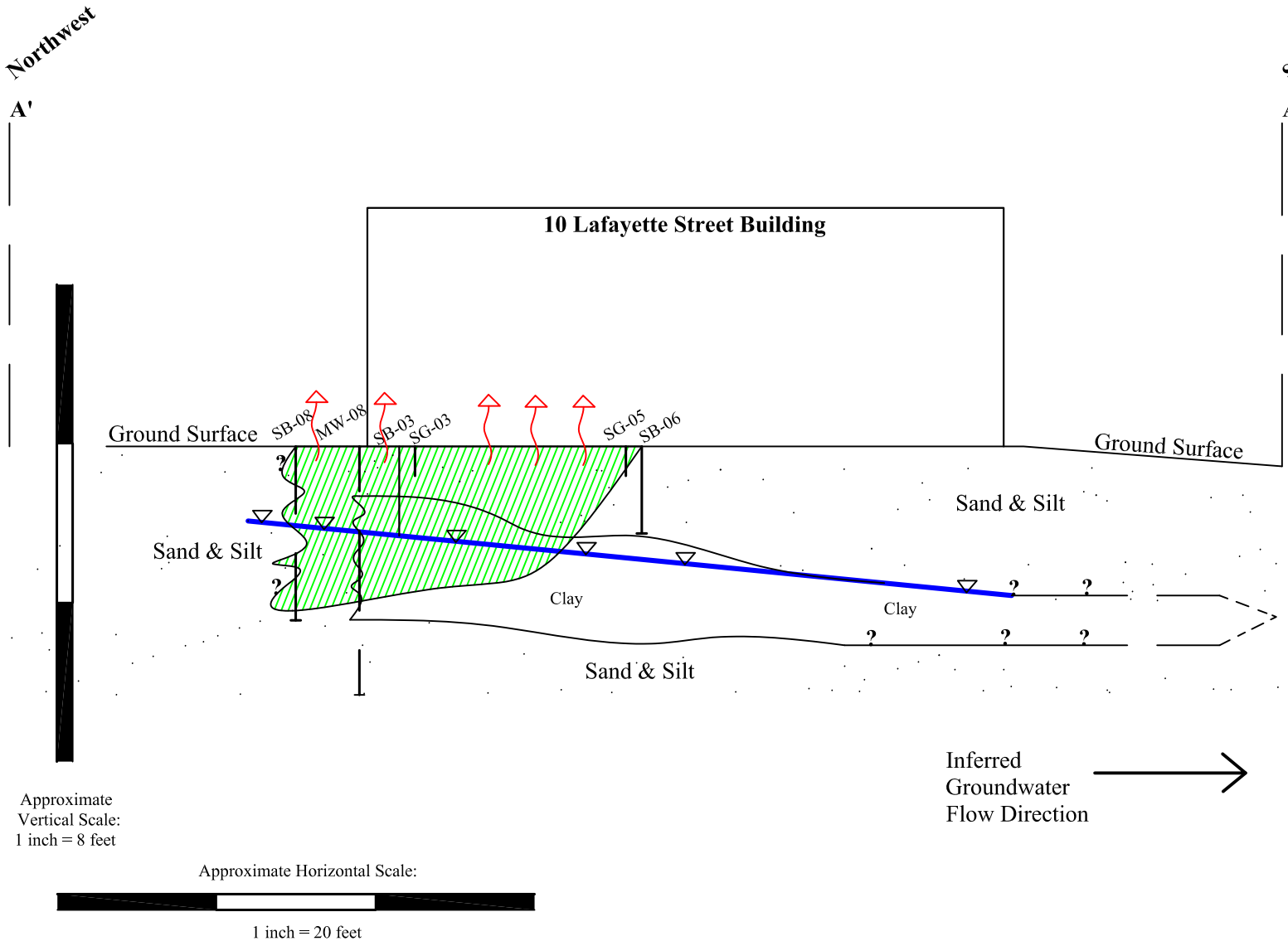
E:\Ct_gis\EWR\MXDs\Figure A - A - A' Transect.mxd



LEGEND

- Top of Water Table
- Potentially Contaminated Vapor
- VOC Contaminated Soil, Soil Gas, and Groundwater
- Sand & Silt
- ? Unknown Limits

NOTE

Vertical Exageration = 2.5

Ground surface elevation estimated.

See Figure A - A - A' Transect for aerial imagery.

Borings, monitoring wells, and soil gas well locations are projected.

Figure B: A - A' Cross Section Diagram LeBlanc Cleaners Lewiston, Maine	EPA Region 1 Superfund Technical Assessment and Response Team (START) IV Contract No. EP-S3-15-01	TDD:O1-16-02-0003 Created by: A. Danikas Created on: 19 July 2016 Revised by: K. Robinson Revised on: 21 July 2016	WESTON SOLUTIONS The Trusted Integrator for Sustainable Solutions

Appendix F

Analytical Data and Chain-of-Custody Record