January 13, 2016

Ms. Stacy Ladner
Unit Manager
Division of Oil & Hazardous Waste Facility Regulation
Bureau of Remediation and Waste Management
Maine Department of Environmental Protection
17 State House Station
Augusta ME 04333

Subject: Landfill 2 Corrective Measures Implementation Plan
Orrington Remediation Site
Orrington, Maine

Dear Ms. Ladner:

Please find enclosed the Draft **Landfill 2 Corrective Measures Implementation (CMI) Plan for** the Orrington Remediation Site. This CMI Plan includes a summary of the pre-design activities and a comparison of results to the Media Protection Standards (MPS) (Section 2) and the data is also presented in tables, figures and Appendices A-E. Validated EGAD EDDs for this data has previously been submitted to the Maine DEP under separate cover.

The remainder of this CMI Plan includes the detailed design for the Southerly Stream remedy. The Design Objectives are outlined in Section 3 and the Corrective Measures Implementation components are described in detail in Section 4. Permitting issues and the schedule are addressed in Sections 5 and 6. Drawings and Specifications are included in Appendices F & G, the Construction Quality Assurance (CQA) Plan is in Appendix H, design calculations are in Appendix I and the Soil Use Plan in Appendix J.

According to the current schedule, the Department's initial comments on this Draft CMI Plan are due on March 16, 2016. The agenda for our meeting in February will include a discussion of this CMI Plan however if you have any questions or comments before then please don't hesitate to contact me at 314-281-5947.

Sincerely,

Kathy Zeigler

Kathy Zeigler
Director, Environmental Remediation

cc: Chris Greene, Geosyntec
John Weston, CDM Smith
Pat Duft, Mallinckrodt US LLC

CMI PLAN

Draft Landfill 2
Corrective Measures Implementation (CMI) Plan

Orrington Remediation Site

Orrington, Maine

Prepared by:

CDM Smith, Inc.
25 Industrial Ave.
Chelmsford, MA 01824

Geosyntec Consultants, Inc.
289 Great Road, Suite 105
Acton, MA 01720

Mallinckrodt US LLC

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Acronyms

ASTM	American Society of Testing Materials
BEP	Board of Environmental Protection
bgs	below ground surface
BMP	best management practice
CDM	Camp Dresser & McKee
CDM Smith	CDM Smith, Inc.
CMI	Corrective Measures Implementation
COC	Contaminant of Concern
CQA	Construction Quality Assurance
DEP	Department of Environmental Protection
DMA	Direct Mercury Analyzer
ESC	Erosion and Stormwater Control
ft	feet
Geosyntec	Geosyntec Consultants, Inc.
GWTP	Groundwater Treatment Plant
HASP	Health and Safety Plan
LF2	Landfill 2
Mallinckrodt	Mallinckrodt US LLC
MDIFW	Maine Department of Inland Fisheries and Wildlife
mg/kg	milligrams per kilogram
MPS	Media Protection Standard
NRPA	Natural Resources Protection Act
Order	Board of Environmental Protection Order
Oz	ounce
PCB	polychlorinated biphenyl
PM_{10}	Particulate Matter
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RAGs	Remediation Action Guidelines
SB	Soil Boring
SC	clayey sand
Site	Orrington Remediation Site
SM	silty sand

SP-SM	poorly graded silty sand
SPT	standard penetration test
sq.	square
SY	square yard
SW-SM	well graded silty sand
SVOC	semivolatile organic compound
TCLP	toxicity characteristic leaching procedure
USCS	United Soil Classification System
USFWS	United States Fisheries and Wildlife Service
VOC	volatile organic compound
XRF	X-Ray Fluorescence

Section 1. Introduction

1.1 Purpose

This Landfill 2 Area Corrective Measures Implementation (CMI) Plan was prepared by CDM Smith Inc. (CDM Smith) and Geosyntec Consultants, Inc. (Geosyntec) on behalf of Mallinckrodt US LLC (Mallinckrodt). The purpose of this CMI Plan is to present the corrective measures to support soil remediation of the Landfill 2 Area at the Orrington Remediation Site (Site) located at 99 Industrial Way, Orrington, Maine. **Figure 1-1** is a Site Plan. The CMI Plan presents the results of the pre-design investigation, a narrative description of the remedial objectives and planned implementation, design drawings, and specifications to implement the remedial activity.

The Landfill 2 Area will be remediated in accordance with the Board of Environmental Protection (BEP) Order (the Order) effective April 3, 2014 which incorporates, with modifications, the Compliance Order issued by the Maine Department of Environmental Protection (DEP) dated November 24, 2008. The Order states that corrective measures will include at a minimum excavation and removal of soil exceeding the Media Protection Standards (MPS). Note that the restoration of the Southerly Stream will be presented in the Southerly Stream CMI Plan.

Subsequent sections describe the results of the Landfill 2 Area pre-design study, objectives and components of the CMI. Additional details describing the field sampling methods, analytical methods, health and safety procedures, and quality assurance/quality control (QA/QC) procedures have been provided in the Health and Safety Plan (HASP) (CDM Smith 2014a) and Quality Assurance Project Plan (QAPP) (CDM Smith, 2015a).

1.2 Report Organization

The Landfill 2 CMI Plan presents the geotechnical and analytical data collected to support the remedial design, followed by a description of the remedial design process. Analytical and geotechnical data was collected to support remedial design in the Landfill 2 Area in accordance with the Landfills Phase I Pre-Design Work Plan (CDM Smith, 2014b) and the Landfills Phase II Pre-Design Work Plan (CDM Smith, 2015b). A summary of the collection and results of these supporting data sets are presented in Section 2.

The remedial design objectives, based on the Order, are described in Section 3. The components of the remedial design that will be implemented to meet the remedial design objectives as well as the material transportation and disposal logistics are included in Section 4. The permitting requirements are presented in Section 5, and the anticipated schedule of CMI activities is presented in Section 6.

Section 2.
Summary of the Landfill 2 Pre-Design Results

The following section presents a summary of the results of the Phase I and Phase II pre-design activities completed at Landfill 2 and the adjacent portion of the Southerly Stream. Analytical and geotechnical pre-design activities were completed in accordance with the Revised Landfills 1 & 2 Phase I Pre-Design Work Plan (Revised Phase I WP) (CDM Smith, 2014b), Revised Landfills 1 & 2 Phase II Pre-Design Work Plan (Revised Phase II WP) (CDM Smith, 2015b), and the Revised Plant Areas Pre-Design Work Plan (CDM Smith, 2015c). Letters of Conditional Approval for the Revised Phase I WP and Revised Phase II WP were received from Maine DEP on December 12, 2014 and June 16, 2015, respectively. An e-mail approving the initial Southerly Stream Pre-Design activities was received from Maine DEP on July 23, 2015. Numerous e-mails approving step-out borings associated with these pre-design investigations were sent to the Maine DEP for review and approval.

2.1 Analytical Results

A total of 71 soil borings were advanced at Landfill 2 during Phase I and Phase II pre-design activities. Eleven soil borings were advanced on December 17, 2014 and December 18, 2014, as part of Phase I pre-design activities. Sixty additional soil borings were advanced at Landfill 2 between June 16, 2015 and November 4, 2015 as part of the Phase II pre-design activities. Nine transects in the Southerly Stream (TS-SS-A through TS-SS- I) comprised of 28 soil borings were furthermore advanced adjacent to the northwestern extent of Landfill 2 between August 3, 2015 and August 25, 2015. The soil borings at Landfill 2 were advanced using a track mounted Geoprobe/7822DT and the transect borings in the Southerly Stream were completed with the use of a hand probe. On December 15, 2014 and December 17, 2014, two test pits (TP-LF2-01 and TP-LF2-02) were also completed at Landfill 2 using a John Deere 75D excavator. The locations of the Geoprobe soil borings, test pits, and transects are shown on **Figure 2-1**. The Revised Phase II WP proposed 30 original soil borings (SB-LF2-12 through SB-LF2-41) with possible step-out soil borings where mercury concentrations in perimeter borings were above 2.2 milligrams per kilogram (mg/kg). Thirty step-out borings (SB-SMY-42 through SB-SMY-71) were performed with Maine DEP approval at the locations shown on **Figure 2-1.**

Analytical samples were collected from soil samples obtained from these borings, transect locations and test pits. **Appendix A** presents tabulated results of the analytical tests, **Appendix B** presents the boring and test pit logs from the investigation, and **Appendix C** presents the Alpha Analytical Laboratory Reports, Direct Mercury Analyzer (DMA) Laboratory Reports, and the Mercury Speciation Laboratory Reports. The sections below present a summary of the data collected and key findings to support the design activities.

2.1.1 Nature and Extent

The major findings from the analysis of the nature and extent of contaminants of concern (COCs) exceeding soil MPS in Landfill 2 and the adjacent Southerly Stream are as follows:

- The maximum depth of material with mercury concentrations exceeding the MPS corresponds closely with the top of the underlying till. In the adjacent Southerly Stream, mercury concentrations above the MPS were limited mainly to the deposited material that was transported from upstream or eroded from the surrounding embankments. In a few locations the top samples of the peat and organics strata exceeded the MPS.

- Non-mercury COCs with MPS were not detected above their respective MPS in Landfill 2 or the portion of the Southerly Stream adjacent to Landfill 2. The results show that historical soil deposits in the Southerly Stream and Landfill 2 do not contain non-mercury COCs therefore additional sampling for these compounds is not required.
- Total volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) without MPS were not detected or were only detected at levels below Maine Remedial Action Guidelines (RAGs) for unrestricted use. The results show that historical soil deposits in the Southerly Stream and Landfill 2 do not contain VOCs therefore additional sampling for these compounds is not required.
- Elemental mercury was not observed in the borings or test pits.
- Mercury speciation samples were collected from SB-LF2-15, SB-LF2-23, and SB-LF2-24. The majority (e.g. greater than 85%) of mercury was present in F4 through F6 species which are the less soluble fractions.

Each boring was typically segregated into one-foot intervals and mercury concentrations were measured from these intervals. Where there was not enough material for analysis in a one foot segment, adjacent segments were combined. The sample intervals were first screened with the XRF; if the XRF measurement was below 15 mg/kg, the sample was analyzed using the Maine-Certified Direct Mercury Analyzer (DMA-80). Additionally, if the DMA-80 measurement of mercury was below 2.2 mg/kg, the sample was submitted for analysis at a Maine certified off-site laboratory. This was done because Maine DEP approval of the DMA and Alpha Comparison Memorandum submitted to Maine DEP on July 15, 2015 was not received until after completion of the field activities. The mercury concentrations measured using the XRF, DMA-80, and at the off-site Maine certified laboratory are provided in **Table A-1** of **Appendix A**. **Figure 2-2** illustrates the location of each of the soil borings, with an accompanying bar chart for each boring showing the ground surface elevation, bottom of boring elevation, and which one-foot intervals exceeded the MPS for mercury.

At Landfill 2, elevated mercury concentrations were typically limited to the fill and occasionally continued into the sand, silt and clay, peat, gravel strata, and till. Out of the 71 soil borings advanced at Landfill 2, only five boring locations (SB-LF2-25, SB-LF2-26, SB-LF2-43, SB-LF2-45 and SB-LF2-57) contained mercury concentrations above the MPS of 2.2 mg/kg at the top of the till.

Mercury concentrations greater than 2.2 mg/kg were found in soils within Landfill 2 and the adjacent Southerly Stream transects. Higher concentrations were observed near the western portion of Landfill 2 (SB-LF2-15 and SB-LF2-16). Borings with the deeper mercury concentrations above the MPS were typically found down to an elevation of 55 ft and were located near the center of Landfill 2 (SB-LF2-16, SB-LF2-24, SB-LF2-26, and SB-LF2-43). Elevated mercury concentrations across the Southerly Stream were confined to the surficial soils. Apart from TS-SS-I1 and TS-SS-I2, concentrations above the MPS were limited to 0 to 1 ft bgs. Upstream of Landfill 2 (e.g. TS-SS-A and TS-SS-B), no mercury MPS exceedances were found.

Samples analyzed from soil borings and transects installed during the pre-design activities vertically delineated the extent of mercury above the MPS at each boring location. The lateral extent was delineated in the majority of location with the exception of 10 locations. TS-SS-D2 and TS-SS-F2 were near the northern edge of the Southerly Stream and final delineation will occur during the excavation activities. TS-SS-I1 and TS-SS-I2 had mercury concentrations above 2.2 mg/kg at select intervals however the Scrap Metal Yard area excavation extends to these points so no further delineation was required. SB-LF2-40 and SB-LF2-53 had mercury concentrations above 2.2 mg/kg in select intervals however step-out borings were not performed due to limited access and delineation will be completed during the excavation in these areas. At SB-LF2-49, SB-LF2-62, SB-LF2-63, and SB-LF2-67 potential step-out boring locations were limited due to the railroad tracks and access to the areas and

delineation will be completed during the excavation in these areas. Post-excavation confirmation samples will be taken in each of these areas.

Ninety-five samples were collected from 38 borings and 28 transect locations and were sent to an off-site Maine certified laboratory for analysis of total VOCs and non-mercury COCs for which soil MPS are established. During Phase I pre-design activities, samples were collected at a frequency of approximately one sample every four vertical feet. During Phase II pre-design activities, samples were collected from the interval below the deepest mercury MPS exceedance. The results for the non-mercury COCs (e.g. chloropicrin, polychlorinated biphenyls (PCBs), cadmium, ethylbenzene, and total xylenes) in Landfill 2 and the adjacent Southerly Stream are presented in **Table A-2** of **Appendix A** and **Figures 2-3 through 2-7**. Other VOCs and SVOCs compounds without MPS were either not detected or were present at levels that were below the Maine unrestricted use soil standards therefore do not require additional delineation. The total VOC data are provided in **Table A-3** of **Appendix A**.

In accordance to the Revised Phase II WP, three samples collected from SB-LF2-15, SB-LF2-23, and SB-LF2-24 were analyzed for mercury speciation. The results from the mercury speciation analysis can be found in **Table A-6** of **Appendix A**.

2.1.2 Preliminary Waste Characterization

According to historical documentation, approximately 1,500 tons of brine sludge was reportedly disposed of in Landfill 2 (CDM, 1998). To assess the presence of this brine sludge in Landfill 2, waste characterization information was obtained from 11 soil borings and two test pits during the Phase I pre-design activities. The major findings from the waste characterization activities were as follows:

- Brine sludge was not visually observed in the Landfill 2 material.
- The material tested does not exhibit the characteristics of a hazardous waste material.
- Elemental mercury was not observed in the test pits or within the soil borings completed at Landfill 2.

The material tested does not exhibit the characteristics of a hazardous waste material. A composite bulk sample was obtained from each test pit. The composite sample was compromised of samples collected over the entire depth interval of the test pit. The samples were placed in a 5 gallon plastic bucket (one per test pit) and sealed. The composite samples were analyzed to determine whether the material exhibited hazardous characteristics and to assist with identifying disposal facilities. The parameters analyzed included total metals, VOCs, TCLP VOCs, TCLP metals, TCLP SVOCs, TCLP herbicides, ignitability, corrosivity, and reactivity. The analytical data are provided in **Table A-4** of **Appendix A** and the test pit logs are provided in **Appendix C**. The TCLP results from both test pits exhibit concentrations less than the corresponding TCLP limits for each compound analyzed.

The concentrations of the major constituents of the brine sludge were provided in reports of previous site investigations (CDM, 1998). To assess the presence of this brine sludge in Landfill 2, one soil sample was collected from every four vertical feet of the soil borings advanced during the Phase I pre-design activities and analyzed for the sludge's major constituents (e.g. barium, iron, nickel, zinc, strontium, sodium, calcium, magnesium sulfate, carbonate, and chloride). Chemical analyses of these soils reveal concentrations that are not consistent with the brine sludge reported in previous site investigation reports. As a result, the presence of brine sludge cannot be verified. Results of these analyses can be found in **Table A-5** of **Appendix A**.

The excavated materials will be characterized for disposal in accordance with requirements of the off-site disposal facility. While brine sludge mixed with sand was reportedly disposed in Landfill 2, and

such wastes would be considered listed waste, the actual TCLP data for the samples tested to date indicate that the soils are not a characteristically hazardous waste.

Mallinckrodt has evaluated EPA's Contained-In policy and believes it is applicable to the material to be excavated from Landfill 2. This Contained-In principle, which was issued as a policy in 1998[1], outlines EPA's interpretation regarding application of RCRA Subtitle C requirements to mixtures of media and hazardous wastes that result in contaminated media. A compilation of statements made by EPA regarding the contained-in policy was placed in the docket for the HWIR-Media Rule and is posted to the EPA website at http://www.epa.gov/osw/hazard/correctiveaction/resources/guidance/remwaste/refrnces/12cntdin.pdf. This posting includes references to the policy in various Federal Register notices as well as clarifications made in response to letter inquiries. In summary, the contained-in policy allows a generator to make a site-specific determination that concentrations of hazardous constituents in soil are low enough that the material does not "contain" hazardous waste. EPA provides additional guidance on making such "contained-out" determinations in *Management of Remediation Waste under RCRA* (Oct. 14, 1998).

Based on the analytical results, we believe the soils in Landfill 2 can be safely transported and disposed without considering them a listed hazardous waste. This is the type of management of remediation waste contemplated in the EPA Guidance. Mallinckrodt has prepared an analysis for discussion with Maine DEP and believes the characteristics of these soils support a different classification in accordance with the EPA Guidance. However, regardless of the ultimate decision regarding the disposal characterization for the Landfill 2 soils, none of the material excavated from Landfill 2 will be disposed in the State of Maine.

2.2 Geotechnical Investigation Results

Seven geotechnical borings were drilled in the Landfill 2 area between June 16 and 24, 2015. Geotechnical borings were advanced using a CME 850 drill rig with rotary wash and casing techniques. The geotechnical borings, shown on **Figure 2-1,** were advanced to evaluate the soil stratigraphy, soil strength parameters and to obtain samples for geotechnical laboratory testing. Boring logs are provided in **Appendix B**.

The CME 850 drill rig was equipped with a 140 pound (lb) automatic hammer to advance split spoons and perform Standard Penetration Tests (SPTs). Split spoon sampling and SPTs were performed in the geotechnical borings continuously to 15 ft bgs at borings GB-LF2-01 and GB-LF2-02 , and at 5-ft increments thereafter until a depth of at least 50 ft below ground surface (bgs) was reached. GB-LF2-03 was sampled continuously until bedrock was encountered at a depth of 24 ft bgs. GB-LF2-04 and GB-LF2-07 were sampled continuously until the top of the till, and at 5 ft increments thereafter until a depth of at least 50 ft bgs was reached. GB-LF2-05 and GB-LF2-06 were sampled continuously for 30 ft and at 5 ft increments thereafter until a depth of at least 50 ft bgs was reached. Cement-bentonite grout was used to backfill each borehole.

Soil samples were collected during the SPT testing using standard split spoon samplers. Split spoon samples taken from the same stratum were combined at GB-LF2-01, GB-LF2-02, and GB-LF2-04. Individual samples were obtained for each split spoon at GB-LF2-03, GB-LF2-05, GB-LF2-06, and GB-LF2-07. Soil was placed in one gallon plastic zip-lock bags and labeled with the sample identification which included boring location, date and depth interval. A tabulated summary of the samples proposed for laboratory testing was provided to Maine DEP on July 18, 2015 for approval. After Maine DEP approved the samples and parameters to be analyzed, 15 samples from Landfill 2 were delivered to the CDM Smith GTS Laboratory, located in Somerville, Massachusetts, and tested in accordance with American Society for Testing and Materials (ASTM) D422 Standard Test Method for Particle Size Analysis of Soils (Grain Size Analysis), ASTM D4318 Standard Test Method for Liquid Limit, Plastic

Limit and Plasticity Index of Soils (Atterberg Limits)(as applicable), ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (United Soil Classification System (USCS)), and ASTM D2216 Standard Test Method for Water Content.

2.2.1 Landfill 2 Stratigraphy

Based on data obtained from the geotechnical activities described above and historical information from previous Site investigations performed (CDM, 1998), the Landfill 2 stratigraphy can be described generally as an existing fill layer underlain by native soil of varying characteristics. Subsurface profiles of Landfill 2 are shown on **Drawings 7 and 8** in the Landfill 2 CMI Plan drawing set (**Appendix F**).

Seven subsurface strata have been identified in the Landfill 2 Area based on geotechnical laboratory soil test results, field SPT results, and visual observations made during field activities. The seven subsurface strata are defined as follows for Landfill 2 (generally in order of appearance from top to bottom):

- Stratum 1 (Fill) – Fill overlays naturally occurring materials, and ranges from loose to dense (SPT Navg = 12) silty sand and silty or clayey sand to silt or poorly graded sand with traces of medium to fine gravel. Within the Southerly Stream the fill is the deposited material that was transported from upstream or eroded from the surrounding embankments. The material generally is silt with varying amounts of sand and little to a trace gravel.

- Stratum 2 (Peat) – Peat and organics ranges from very soft to soft (SPT Navg = 2) peat with some to trace silt or clay. Stratum 2 is generally encountered along the Southerly Stream.

- Stratum 3 (Clay and Silt) – The Clay and Silt layer ranges from very soft to very stiff (SPT Navg = 23) silt or silt and clay often with some to trace gravel or sand and a few stratified gravel pockets. Stratum 3 is thickest in the central part of Landfill 2 and tapers out near the northern and eastern edges of Landfill 2.

- Stratum 4 (Sand) – The Sand layer ranges from very loose to very dense (SPT Navg = 43) silty sand to poorly graded sand or well graded sand, with some to trace gravel or clay present. Stratum 4 is observed in pockets below Stratum 3 and Stratum 1 in the central, northern, and eastern parts of Landfill 2 area. In some area there was approximately 50 percent grey Gravel with the sand.

- Stratum 5 (Gravel) – The Gravel layer ranges from medium to dense (SPT Navg = 24) coarse to fine rounded and angular gravel with some sand and silt. The gravel layer was observed primarily on the eastern side of Landfill 2 beneath Stratum 1 and above Stratum 6, extending from the railroad tracks on the south side Landfill 2 and tapering out at the Southerly Stream to the north. A thin layer of gravel was also observed running parallel to the Southerly Stream beneath Stratum 2. Gravel on the eastern side of Landfill 2 is brown and generally free from significant quantities of sand and fines, consistent with gravel layers observed in the Landfill 1 geotechnical borings. This was a different strata than the layers of higher gravel percentages observed in Stratum 4 described above.

- Stratum 6 (Till) – Till consists of a very stiff to hard (SPT Navg = 54) clayey or silty sand with little to trace and, gravel, and cobbles. Stratum 6 was observed below Stratum 5 throughout Landfill 2.

- Stratum 7 (Bedrock) - Bedrock was observed as dark grey phyllite schist. Stratum 7 was observed at 22 ft bgs only in GB-LF2-03, and was not encountered in the other Landfill 2 pre-design borings.

2.2.2 Soil Classifications and Laboratory Test Results

A summary of soil samples obtained from the field, laboratory soil test results and corresponding USCS Classifications are provided in Table 2-1. Laboratory test results are provided in **Appendix E**. A total of 15 samples were tested and classified in accordance with the ASTM test methods described above.

Table 2-1: Laboratory Soil Test Results

TEST STANDARD			GRAIN SIZE (ASTM D422)							
SAMPLE No.	Depth Interval (ft)	Stratum	PASSING 3-in. (%)	PASSING 3/4-in. (%)	PASSING No. 4 (%)	PASSING No. 10 (%)	PASSING No. 20 (%)	PASSING No. 40 (%)	PASSING NO.100 (%)	PASSING NO.200 (%)
Landfill 2										
GB-LF2-01	0-10	1	100	95.9	92.2	88.1	81.7	65.1	34.5	27
GB-LF2-01	16-51.83	6	100	100	81	72.8	66.7	61.7	55.6	48.7
GB-LF2-02	0-4.5	1	100	100	69.8	51.2	37.4	27	15.1	11.7
GB-LF2-02	4.5-19	1	100	100	78.2	70.2	62.8	56.8	47.3	41.9
GB-LF2-02	19-44	6	100	100	82.8	74.3	67.6	61.9	53.1	47.9
GB-LF2-03	8-9.25	3	100	95.4	65.4	53.6	47.1	44	38.2	33.4
GB-LF2-03	12-13.4	4	100	100	92.2	86.6	77.6	55.8	19.9	9.7
GB-LF2-04	0-13.75	1	100	100	88.7	78.4	69.6	63.3	53.5	46.7
GB-LF2-04	13.75-51	3 and 6	100	100	89.9	82.9	77.1	72.3	63.9	58.2
GB-LF2-05	2.25-6	1	100	95.8	75.2	62.7	53.3	46.4	37.6	33.2
GB-LF2-05	8-9.75	3	100	85.3	61.5	52.8	46.1	40.8	33.1	29.2
GB-LF2-06	24-25.75	4	100	100	99.6	99.3	99	90	36.5	15.1
GB-LF2-06	6-7.7	1	100	100	99.9	99.3	97.7	95	74.6	47.8
GB-LF2-07	4.6-5.2	1	100	83.7	45.2	30	20.8	15.6	9.3	7
GB-LF2-07	12-13.5	3	100	100	79	68.2	59.5	52.9	44.3	39.5

TEST STANDARD			MOISTURE (ASTM D2216)	ATTERBERG LIMITS (ASTM D4318)			SOIL CLASS (ASTM D2487)
SAMPLE No.	Depth Interval (ft)	Stratum	(%)	LL	PL	PI	USCS
Landfill 2							
GB-LF2-01	0-10	1	19.6	21	15	6	SC-SM
GB-LF2-01	16-51.83	6	10.4	21	12	9	SC
GB-LF2-02	0-4.5	1	6.4	NV	NP	NP	SP-SM
GB-LF2-02	4.5-19	1	10.5	21	16	5	SC-SM
GB-LF2-02	19-44	6	8.3	22	15	7	SC-SM
GB-LF2-03	8-9.25	3	14.1	22	18	4	GC-GM
GB-LF2-03	12-13.4	4	20	NV	NP	NP	SW-SM
GB-LF2-04	0-13.75	1	17.5	30	22	8	SC
GB-LF2-04	13.75-51	3 and 6	9.6	22	13	9	CL
GB-LF2-05	2.25-6	1	9.7	5	8	NP	SM
GB-LF2-05	8-9.75	3	8.4	21	14	7	GC-GM
GB-LF2-06	24-25.75	4	21.7	NV	NP	NP	SM

GB-LF2-06	6-7.7	1	19.2	NV	NP	NP	SM
GB-LF2-07	4.6-5.2	1	1.3	NV	NP	NP	GW-GM
GB-LF2-07	12-13.5	3	12.1	22	14	8	SC

Notes:
1. Stratum designations include:
   Stratum 1 = Fill
   Stratum 2 = Peat/organics
   Stratum 3 = Clay and Silt
   Stratum 4 = Sand
   Stratum 5 = Gravel
   Stratum 6 = Till
   Stratum 7 = Bedrock
2. Abbreviations: ASTM= American Society for Testing and Materials; NV = No value; NP = not plastic.
3. USCS Symbols, based on ASTM D2487 method of classification for soils for engineering purposes: silty sand (SM); clayey sand (SC); well graded silty sand (SW-SM); poorly graded silty sand (SP-SM); clayey and silty sand (SC-SM); clayey silty sandy gravel (GC-GM); clay (CL); well graded silty gravel (GW-GM).
4. Samples listed correspond to those samples identified for laboratory testing as summarized in an email to Maine DEP on July 18, 2015. No changes were made to the proposed testing program submitted on that date.
5. Samples were a composite of the of the corresponding strata

2.2.3 Groundwater

There are two existing wells located on the south east side of Landfill 2, PZLF-2 and B-301-02. Water level measurements were taken at PZLF-2 and B-301-02 both in December of 2012 and the July and August of 2015. In December of 2012 PZLF-2 had a groundwater elevation of 73.35 ft and B-301-02 had a groundwater elevation of 70.55 ft. In the summer of 2015 PZLF-2 had a groundwater elevation of 69.47 and B-301-02 had a groundwater elevation of 67.98 ft.

There are also two existing well on the west side of Landfill 2 where groundwater measurements were taken, MW-409-01 and P-9. Groundwater elevations were measured in December of 2012 and July of 2015 for MW-409-01 and in July of 2015 for P-9. In 2012 groundwater was measured at an elevation of 68.85 ft at MW-409-01 and in 2015 groundwater was measured at an elevation of 63.52 ft at MW-409-01 and P-9.

Groundwater was observed in test pits that were excavated in December of 2014. TP-LF2-01 encountered groundwater at an elevation of 73.4 ft (2.8 ft bgs) and TP-LF2-01 encountered groundwater at an elevation of 68.5 ft (10 ft bgs).

Section 3.
Design Objectives

3.1 Corrective Measures Implementation Plan Objectives

The primary objective of the remedy for the Landfill 2 Area is to remove soil within the Landfill 2 Area with concentrations of COCs exceeding the MPS (presented in Section 3.2), and disposal of soil at an approved offsite disposal facility. Additional objectives of the CMI are to:

- Establish final grades to direct shed stormwater and re-vegetate the Landfill 2 area such that it blends in with surrounding areas including the Southerly Stream and minimizes the potential for future erosion; and
- Manage air quality conditions and be protective of on-site workers and the surrounding community.

Note that the restoration of the Southerly Stream will be presented in the Southerly Stream CMI Plan.

3.2 Contaminants of Concern and Media Protection Standards

COCs at the Site for which soil MPS have been established are summarized in **Table 3-1**, as presented in Attachment 2 of the Order. Mercury is the primary COC identified in previous investigations in the Landfill 2 Area.

Table 3-1: Soil Media Protection Standards – Numeric

	Soil
	(mg/kg)
Mercury	2.2
Chloropicrin	0.125
PCBs	1.0
Cadmium	8
Ethylbenzene	13
Xylene	190

NOTES:
Media Protection Standards as presented in the Order (Attachment 2).
mg/kg = milligrams per kilogram
PCBs = polychlorinated biphenyls

Section 4.
Corrective Measures Implementation Components

The Landfill 2 CMI will include the following primary components presented in the general order of execution.

- Pre-Construction Activities;
- Implement Perimeter Air Monitoring Program;
- Site preparation including establishment of access roads, staging areas, erosion and sediment controls, stockpile areas, etc.;
- Excavation and removal of material exceeding MPS from the Landfill 2 Area and adjacent Southerly Stream;
- Post-excavation confirmation sampling;
- Materials management including soil stockpiling and direct loading of rail cars;
- Backfilling the excavation and grading of the Landfill 2 Area to proposed final grades; and
- Surface stabilization of the final grading area with topsoil and vegetation.

Drawing 2 in **Appendix F** presents a detailed sequence of the remediation activities. Although listed as discrete tasks, portions of construction may be performed simultaneously. The remainder of Section 4 describes components of the CMI including pre-construction activities, site staging and layout, erosion and sediment control, excavation of soil above the MPS, post-excavation confirmation sampling, final grading plan, and re-vegetation. Some of the components of the CMI, including the Perimeter Air Monitoring Plan, Temporary Soil Stockpile Area, staging areas, and portions of the access roads in the Plant Area and Scrap Metal Yard, will have already been constructed and other corrective measures prior to the start of the Landfill 2 CMI.

The CMI Plan Drawings (Drawings) are presented in **Appendix F,** Specifications are presented in **Appendix G,** the Construction Quality Assurance (CQA) Plan is presented in **Appendix H**, design calculations are presented in **Appendix I**, and the Soil Use Plan is presented in **Appendix J**.

4.1 Confirmation Sampling

A combination of pre-excavation and post-excavation sidewall and bottom samples will be used to confirm that the materials exceeding the MPS criteria are removed from Landfill 2 and the adjacent Southerly Stream. Removal limits will be extended to the point where confirmation samples indicate the remaining soils are below the MPS criteria. A pre-excavation bottom sample is defined as the first clean (below 2.2 mg/kg) sample interval in a boring that vertically delineates the extent of mercury. A post-excavation bottom sample is a grab sample collected from the bottom of the open excavation. A pre-excavation sidewall sample defines the lateral extent of mercury exceedances located at the perimeter of excavation in which each sample interval in the boring has mercury concentrations below the MPS. Since each interval in these pre-excavation borings is below the MPS, each sample collected from these pre-excavation sidewall borings is considered a separate sidewall sample. A post-excavation sidewall sample is a grab sample collected from the exposed sidewall of an open

excavation. Upon completion of the confirmation sampling program, which includes both pre- and post-excavation samples, the following minimum sample frequencies will be achieved:

- One sidewall per 50 LF of excavation; and
- Bottom samples on a 50-foot grid spacing. This is equivalent to an approximate 25 foot radius sampling frequency or one sample per 2500 square feet of bottom excavation area.

Post-excavation confirmation samples will be analyzed for mercury. Based on the pre-excavation confirmation samples showing concentrations of non-mercury COCs of non-detect or below the respective MPS, post-excavation sampling for the non-mercury COCs is not required.

The excavation plan on **Drawing 10** indicates that the completed excavation will have a perimeter of approximately 1,502 LF and a bottom area of approximately 62,424 sq. ft. Based on the criteria above, this would result in a minimum of 30 sidewall samples and 25 bottom samples.

The actual number of confirmation samples and timeframe of collection are summarized in **Table 4-1**.

Table 4-1: Summary of Landfill 2 and Adjacent Southerly Stream Confirmation Samples

Sampling Time Frame	Bottom Samples		Side Wall Samples	
	Mercury	Other COCs	Mercury	Other COCs
Pre-Excavation (complete)	76	17	118	24
Post-Excavation	8	0	25	0
Total Confirmation Samples	84	17	143	24
Frequency	1 sample/744 ft^2	1 sample/3,674 ft^2	1 sample/ 11 linear feet	1 sample/ 63 linear feet

After completing removal activities, post-excavation bottom and sidewall confirmation samples will be collected. The sidewall confirmation sample locations will be biased towards the highest mercury concentration in the adjacent boring(s). The location of the post-excavation confirmation samples are shown on Drawing 9. An excavation area will be considered clean and available to be backfilled once the data from the Maine-certified DMA for the confirmation samples associated with that area have been validated and show the remaining soil is below the MPS.

4.1.1 Pre-Excavation Confirmation Samples

The locations and type of the pre-excavation confirmation sample are provided in **Table 4-2**. The coordinates of these pre-excavation confirmation samples are provided on **Sheet 9**.

Table 4-2: Landfill 2 and Adjacent Southerly Stream Pre-Excavation Confirmation Samples

Sampling Locations	Type of Confirmation Sample	Number of Samples	Depth Interval of Sample(s) (ft bgs)	Elevation Interval of Sample (ft)
SB-LF2-01	Bottom	1	6 - 7	63 - 64
SB-LF2-02	Bottom	1	11 - 12	65 - 66
SB-LF2-03	Bottom	1	7 - 8	64 - 65
SB-LF2-04	Bottom	1	17 - 18	60.5 - 61.5
SB-LF2-05	Bottom	1	5 - 6	66.5 - 67.5
SB-LF2-06	Bottom	1	7 - 8	71 - 72
SB-LF2-07	Bottom	1	10 - 11	67 - 68
SB-LF2-08	Bottom	1	8 - 9	67.5 - 68.5
SB-LF2-09	Bottom	1	4 - 5	68 - 69
SB-LF2-10	Bottom	1	9 - 10	66.5 - 67.5
SB-LF2-12	Bottom	1	7 - 8	64.5 - 65.5
SB-LF2-13	Bottom	1	10 - 11	65 - 66
SB-LF2-14	Bottom	1	3 - 4	65 - 66
SB-LF2-15	Bottom	1	17 - 18	58.5 - 59.5
SB-LF2-16	Bottom	1	19 - 20	55.5 - 56.5
SB-LF2-17	Bottom	1	16 - 17	59.5 - 60.5
SB-LF2-18	Bottom	1	5 - 6	71.5 - 72.5
SB-LF2-19	Bottom	1	6 - 7	62 - 63
SB-LF2-20	Bottom	1	5 - 6	71 - 72
SB-LF2-21	Bottom	1	5 - 6	63.5 - 64.5
SB-LF2-22	Bottom	1	9 - 10	67 - 68
SB-LF2-23	Bottom	1	12 - 13	64.5 - 65.5
SB-LF2-24	Bottom	1	16 - 17	56.5 - 57.5
SB-LF2-25	Bottom	1	13 - 14	64.5 - 65.5
SB-LF2-26	Bottom	1	21 - 22	56 - 57
SB-LF2-27	Bottom	1	2 - 3	67 - 68
SB-LF2-28	Bottom	1	16 - 17	62 - 63
SB-LF2-29	Bottom	1	3 - 4	73 - 74
SB-LF2-30	Bottom	1	11 - 12	64 - 65
SB-LF2-31	Bottom	1	4 - 5	66.5 - 67.5
SB-LF2-32	Bottom	1	16 - 17	62 - 63
SB-LF2-33	Bottom	1	3 - 4	72.5 - 73.5
SB-LF2-34	Bottom	1	6 - 7	65.5 - 66.5
SB-LF2-35	Bottom	1	16 - 17	58.5 - 59.5
SB-LF2-36	Bottom	1	12 - 13	65 - 66
SB-LF2-37	Bottom	1	6 - 7	64 - 65
SB-LF2-38	Bottom	1	6 - 7	69 - 70
SB-LF2-39	Bottom	1	3 - 4	71.5 - 72.5
SB-LF2-40	Bottom	1	4 - 5	65.5 - 66.5
SB-LF2-42	Bottom	1	2 - 3	65 - 66
SB-LF2-43	Bottom	1	16 - 17	54.5 - 55.5
SB-LF2-44	Bottom	1	14 - 15	60.5 - 61.5
SB-LF2-45	Bottom	1	11 - 12	66 - 67
SB-LF2-46	Bottom	1	7 - 8	70 - 71
SB-LF2-47	Bottom	1	5 - 6	72 - 73
SB-LF2-48	Bottom	1	4 - 5	72.5 - 73.5
SB-LF2-49	Bottom	1	2 - 3	74.5 - 75.5

Sampling Locations	Type of Confirmation Sample	Number of Samples	Depth Interval of Sample(s) (ft bgs)	Elevation Interval of Sample (ft)
SB-LF2-52	Bottom	1	4 - 5	70 - 71
SB-LF2-53	Bottom	1	1 - 2	66 - 67
SB-LF2-54	Bottom	1	0 - 1	67 - 68
SB-LF2-55	Bottom	1	0 - 1	68.5 - 69.5
SB-LF2-56	Bottom	1	0 - 1	68 - 69
SB-LF2-57	Bottom	1	11 - 12	64 - 65
SB-LF2-59	Bottom	1	5 - 6	71 - 72
SB-LF2-61	Bottom	1	4 - 5	73.5 - 74.5
SB-LF2-62	Bottom	1	1 - 2	74 - 75
SB-LF2-63	Bottom	1	9 - 10	63 - 64
SB-LF2-64	Bottom	1	6 - 7	69.5 - 70.5
SB-LF2-65	Bottom	1	0 - 1	66 - 67
SB-LF2-67	Bottom	1	2 - 3	69 - 70
SB-LF2-69	Bottom	1	0 - 1	75 - 76
TS-SS-C1	Bottom	1	1 - 2	66 - 67
TS-SS-C3	Bottom	1	0 - 1	67 - 68
TS-SS-D1	Bottom	1	0 - 1	66 - 67
TS-SS-D2	Bottom	1	1 - 2	65 - 66
TS-SS-D3	Bottom	1	0 - 1	66 - 67
TS-SS-E3	Bottom	1	1 - 2	65 - 66
TS-SS-F1	Bottom	1	1 - 2	65 - 66
TS-SS-F2	Bottom	1	1 - 2	65 - 66
TS-SS-F3	Bottom	1	0 - 1	66 - 67
TS-SS-G1	Bottom	1	1 - 2	65 - 66
TS-SS-G3	Bottom	1	1 - 2	66 - 67
TS-SS-H1	Bottom	1	1 - 2	65 - 66
TS-SS-H3	Bottom	1	1 - 2	65 - 66
TS-SS-I1	Bottom	1	3 - 4	62.5 - 63.5
TS-SS-I2	Bottom	1	2 - 3	64 - 65
SB-LF2-11	Sidewall	13	0 - 13	61 - 74
SB-LF2-41	Sidewall	11	0 - 11	61.5 - 72.5
SB-LF2-50	Sidewall	10	0 - 10	67 - 77
SB-LF2-51	Sidewall	15	0 - 15	61 - 76
SB-LF2-58	Sidewall	15	0 - 15	63 - 78
SB-LF2-60	Sidewall	10	0 - 10	68 - 78
SB-LF2-66	Sidewall	3	0 - 3	75.5 - 78.5
SB-LF2-68	Sidewall	7	0 - 7	70.5 - 77.5
SB-LF2-70	Sidewall	10	0 - 10	68.5 - 78.5
SB-LF2-71	Sidewall	14	0 - 14	57.5 - 71.5
TS-SS-B1	Sidewall	3	0 - 3	65 - 68
TS-SS-B2	Sidewall	3	0 - 3	65 - 68
TS-SS-B3	Sidewall	3	0 - 3	65 - 68
TS-SS-C2	Sidewall	3	0 - 3	65 - 68
TS-SS-E1	Sidewall	3	0 - 3	64 - 67
TS-SS-G2	Sidewall	3	0 - 3	69.5 - 72.5
TS-SS-H2	Sidewall	3	0 - 3	64 - 67
TS-SS-I3	Sidewall	3	0 - 3	64 - 67

4.1.2 Post-Excavation Confirmation Samples

The locations and type of the post-excavation confirmation sampling point are provided in **Table 4-3**. The coordinates of these post-excavation confirmation samples are provided on **Sheet 9**.

Table 4-3: Landfill 2 and Adjacent Southerly Stream Post-Excavation Confirmation Samples

Sampling Locations	Type of Confirmation Sample	Elevation of Sample (ft)
BS-LF2-01	Bottom	76.3
BS-LF2-02	Bottom	76.3
BS-LF2-03	Bottom	76.0
BS-LF2-04	Bottom	76.4
BS-LF2-05	Bottom	77.9
BS-LF2-06	Bottom	77.9
BS-LF2-07	Bottom	72.5
BS-LF2-08	Bottom	77.9
SW-LF2-01	Sidewall	TBD
SW-LF2-02	Sidewall	TBD
SW-LF2-03	Sidewall	TBD
SW-LF2-04	Sidewall	TBD
SW-LF2-05	Sidewall	TBD
SW-LF2-06	Sidewall	TBD
SW-LF2-07	Sidewall	TBD
SW-LF2-08	Sidewall	TBD
SW-LF2-09	Sidewall	TBD
SW-LF2-10	Sidewall	TBD
SW-LF2-11	Sidewall	TBD
SW-LF2-12	Sidewall	TBD
SW-LF2-13	Sidewall	TBD
SW-LF2-14	Sidewall	TBD
SW-LF2-15	Sidewall	TBD
SW-LF2-16	Sidewall	TBD
SW-LF2-17	Sidewall	TBD
SW-LF2-18	Sidewall	TBD
SW-LF2-19	Sidewall	TBD
SW-LF2-20	Sidewall	TBD
SW-LF2-21	Sidewall	TBD
SW-LF2-22	Sidewall	TBD
SW-LF2-23	Sidewall	TBD

Sampling Locations	Type of Confirmation Sample	Elevation of Sample (ft)
SW-LF2-24	Sidewall	TBD
SW-LF2-25	Sidewall	TBD
SW-LF2-26	Sidewall	TBD
Note: The elevations of sidewall confirmation samples will be determined after excavation activities and be biased to the highest mercury concentrations of the adjacent boring.		

4.2 Perimeter Air Monitoring Stations

The perimeter air monitoring system implemented for the Landfill Ridge Area CMI (CDM Smith, 2015e) will be continued for the Landfill 2 CMI. Permanent stations are shown on **Drawing 3** and set up in accordance with the Perimeter Air Monitoring Plan (PAMP) (CDM Smith, 2015e). The objectives of the perimeter air monitoring system are to monitor air quality conditions during the CMI activities, provide real time data so that if action criteria are met corrective actions can be taken promptly and/or work can be stopped, and protect both on-site workers and the surrounding community.

The perimeter air monitoring system measures mercury vapors, PM10, and VOCs using both fixed (e.g. permanent) and mobile stations. Measurements are taken in real time to allow for modifications of work activities or mitigation measures to be implemented in the event the air quality conditions are impacted by the CMI activities. Additional details on implementation of the air monitoring program, including MPS, response levels, corrective actions, and reporting, are provided in the PAMP.

4.3 Site Staging and Layout

Site staging and layout is presented on **Drawings 5 and 6** in **Appendix F**. These drawings present features that will be implemented prior to removal of soils in the Landfill 2 Area including installation of site trailers, construction of access roads, and a decontamination pad. Other staging and layout components were already constructed for the Landfill Ridge Area CMI (CDM Smith, 2015c) approved by Maine DEP or will be constructed during implementation of the Scrap Metal Yard CMI (CDM Smith, 2015e), expected to take place Spring 2016. Erosion and sediment controls are also presented on these drawing sheets and discussed in Section 4.4.

4.3.1 Site Logistics

Site logistics are summarized in this section and described in detail in the Logistics Work Plan (CDM Smith, 2015g), which is currently under review by the Maine DEP.

Primary site access will be through the main gate at the end of Industrial Way in Orrington, Maine. Access to the Site will be restricted; personnel and visitors will sign in at the security trailer (**Drawing 3**). Regular site workers will be signed in during the daily safety meeting and the sign-in record will be provided to the security personnel to ensure an accurate record of personnel on-site is available. Visitors will be required to check out at the security trailer when leaving the Site.

Typical work hours for the site will be Monday through Friday 7:00 AM to 5:00 PM. The hours may be adjusted as needed to accommodate construction schedules and inclement weather.

The remediation areas will be divided into three work zones: (i) support zones, (ii) contamination reduction zones, (iii) and exclusion zones. The support zone will be delineated using temporary construction fencing and will include the office trailer complex and supporting facilities. Signage will

be used to identify work zones. The Remediation Contractor will establish the work zones in the Excavation and Restoration Plan, which will be submitted to Maine DEP for review in accordance with the schedule presented in Section 6. The location of the zones may change as preapproved by the Remediation Project Manager as construction progresses. The Maine DEP will also be notified of any changes to the Excavation and Restoration Plan.

The contamination reduction zone for access into the exclusion zone will be at the access point from the support zone into the exclusion zone. The contamination reduction zone for the Landfill 2 Area will include the decontamination pad for cleaning vehicle tires (**Drawing 5**) and personnel decontamination facilities established by the Remediation Contractor.

4.3.2 Site Trailers/Offices

Trailers for the Owner, Remediation Project Manager, Transportation and Disposal Contractor, Maine DEP, an on-site laboratory, and restroom facilities have been installed by the Remediation Project Manager. The Remediation Contractor will be responsible for providing their own trailers to be installed in the Contractor Trailer Area shown on **Drawing 6**.

4.3.3 Clearing and Grubbing

The Remediation Contractor will be responsible for clearing and grubbing areas necessary within the limit of work as required for access to the Site and execution of work. Clearing and grubbing will consist of removing trees and associated stumps, undergrowth, roots, deadwood and surficial debris. Cleared vegetation will be shredded or chipped prior to stockpiling and potential future use onsite. . Root material and associated soil removed from clean areas outside the work area will be segregated and stockpiled for re-use on Site. Root material and soil removed during grubbing from within the excavation areas will be considered waste material and transported to the Temporary Soil Stockpile Area or Rail Loading Area for off-site disposal. Clearing activities will be performed in a manner so as to minimize the extent of area cleared.

4.3.4 Access Roads

Access roads will be constructed as shown on the drawings and described in the Specifications (**Appendix G**) to provide access between the Landfill 2 Area, Temporary Soil Stockpile Area, and rail loading area. The access roads will be maintained clean (e.g. outside of the exclusion zones) during the Landfill 2 area corrective measures implementation. Vehicles leaving the exclusion zones will be cleaned at the decontamination pad shown on **Drawing 5** prior to traversing the access roads. The roads will be inspected daily by the Remediation Project Manager and documented in daily reports.

The access roads will consist of a base of 6 inches of structural fill and 6 inches of 1½ inch stone separated by a woven geotextile fabric as described in the Specifications (**Appendix G**) and shown on the Drawings (**Appendix F**). As shown in the detail on **Drawing 18**, the road surface will be pitched at approximately 1% to drain stormwater from the surface.

4.3.5 Staging Area

The staging area shown on **Drawing 6** will be constructed as part of the Scrap Metal Yard CMI and will provide an area for material staging during the Landfill 2 construction. The staging area will be made up of 12 inches of dense graded gravel placed over a 8 oz/SY nonwoven geotextile. It will not serve as a material storage or stockpile area for material that require off-site disposal.

4.3.6 Decontamination Pad

Vehicles exiting from the exclusion zones will pass through a decontamination pad to remove soil that may exceed the MPS parameters. The Landfill 2 area will have a decontamination pad as shown on the **Drawing 5**. The decontamination pad will include a geomembrane liner to collect water used in the decontamination process (**Drawing 18**). Calculations demonstrating the minimum puncture resistance of the geomembrane are presented in **Appendix I-1**. Water collected in the decontamination pad will be considered contact water and will be sent to the on-site groundwater treatment plant (GWTP). The Remediation Contractor will determine the actual location of the decontamination pad based on the proposed construction sequence, along with the method of conveyance of contact water to the GWTP. Both will be included in the Remediation Contractor's Construction Water Management Plan to be submitted to Maine DEP for review in accordance with the schedule presented in Section 6.

4.3.7 Rail Loading and Temporary Soil Stockpile Area

Vehicles transporting soil for off-site disposal will drive directly to the rail loading area or the Temporary Soil Stockpile Area (shown on **Drawing 6**). The rail loading area and Temporary Soil Stockpile Area were constructed as part of the Landfill Ridge Area remedial action and drawings and calculations associated with this structure are provided in Appendix F and I of the Landfill Ridge Area CMI Plan, Revision 1, respectively. However, the Remediation Contractor will have the option of directly loading material into rail cars located on the rail spur during the Phase 1 Excavation.

The Temporary Soil Stockpile Area is graded to drain towards a sump. Once use of the Temporary Soil Stockpile Area has begun, water collected in the sump will be considered contact water and treated at the on-site GWTP.

Materials in the Temporary Soil Stockpile Area will be segregated (e.g. clearing & grubbing material, soil excavated from the Landfill 2 area, and soils excavated from other areas on-site). Material in the Temporary Soil Stockpile Area will be covered with tarps daily prior to being loaded for off-site disposal.

Upon completion of the Landfill 2 CMI, some of the site staging and layout components may remain in place for use during other CMIs.

4.4 Temporary Erosion and Sediment Control

Areas disturbed during the corrective measures work described in this plan flow primarily towards the excavation area where stormwater will be collected for treatment, therefore erosion and sediment controls in the majority of the disturbed areas are not necessary. Erosion and sediment control measures will be installed in accordance with the Maine Erosion & Sediment Control Practices Field Guide for Contractors (Maine DEP, 2014) and Maine Stormwater Best Practices Manual (Maine DEP, 2015). Silt fence will be installed along a portion of the northern bank of the Southerly Stream adjacent to where it enters the existing culvert and north of the Landfill 2 area as shown on **Drawing 5**.

Prior to placement of topsoil and seeding in the Landfill 2 area, a fiber roll will be installed along the Southerly Stream to minimize sediment flow into the Southerly stream while the vegetation is becoming established. The location of the fiber roll is shown on **Drawing 15**. Additional erosion and sediment controls may be installed as needed throughout the excavation and restoration based on the Remediation Contractor's proposed Excavation and Restoration Work Plan

Throughout construction the Remediation Contractor will be required to provide sufficient temporary storage for contact water resulting from a 10-year 24-hour storm from within the excavation area. The reason for the temporary storage is that during precipitation events, the GWTP may have limited capacity since it may be receiving peak flows. Calculations demonstrating the required storage volume are presented in **Appendix I-2**. The Remediation Contractor's Construction Water Management Plan will describe the proposed approach for managing the water collected.

4.5 Southerly Stream Bypass

Prior to beginning excavation of the Scrap Metal Yard and Landfill 2, a bypass will be installed to divert water in the Southerly Stream, as shown on **Drawing 4**. The by-pass is designed to flow via gravity. The objectives of the bypass are:

- Minimize dewatering during excavation activities;
- Allow removal of soil/sediment exceeding the MPSs in the Southerly Stream "in the dry" ; and
- Prevent recontamination of the Southerly Stream.

The bypass will be installed upstream of the Landfill 2 area, and will be maintained through the CMIs for Landfill 2 and the Southerly Stream. An Inlet Bypass Structure will be installed at the outlet of the existing gravel pit northeast of Landfill 2. A bypass pipe will convey water from the gravel pit to the existing 30-inch culvert southwest of the Scrap Metal Yard, into which the Southerly Stream currently flows. The Southerly Stream Bypass will flow via gravity under normal conditions and a pump will be available should conveyance of additional by-pass flow be required. The by-pass will remain in place until the completion of the Landfill 2 excavations and restoration of the Southerly Stream north of the Plant Area.

4.6 Excavation Plan

The approximate limits of materials that require excavation and off-site disposal are shown on **Drawing 10** and tabulated on **Drawing 11**. The limits of the material to be removed are subdivided into excavation areas (e.g. LF2-1, LF2-2, etc.) with defined lateral limits and top and bottom elevations. The removal activities will extend, at a minimum, to these lateral limits and elevations unless bedrock is encountered at which point the excavation will be terminate. Additional excavation beyond the limits shown on the **Drawing 10** may be required to maintain safe excavation conditions (e.g. excavation slopes) and to establish final grades. Additional excavation may also be required if the confirmation sampling locations exhibit concentrations above the MPS. Excavated materials that exceed MPS criteria will be transported to the rail loading or Temporary Soil Stockpile Area. Excavated material that does not exceed the MPS will be stockpiled for reuse in accordance with the Soil Use Plan presented in **Appendix J**. This material includes boulders that may be encountered within the excavation limits. Boulders will be cleaned of soil prior to placement back within the excavation limits.

4.6.1 Excavation

The area to be excavated has been divided into excavation areas defined by the pre-design data as discussed in **Section 2**. The excavation bottom within each excavation area has a uniform elevation defined by the lowest sample interval in the borings within that excavation area at which COCs did not exceed MPS criteria. The Remediation Contractor will remove materials within these limits and either direct load them at the rail spur or transport them temporary soil stockpile area for rail car loading.

Additional excavation may be required based on the results of post-excavation bottom and sidewall confirmation sampling described in Section 4.1.

Due to the locations of Site's main line track into the Temporary Soil Stockpile Area and and the rail spur at the western end of the Landfill 2 area, the excavation has been divided into the following three phases of work as indicated on **Drawing 12**:

- Phase 1: Soil removed from this area can be directly loaded into rail cars located on the rail spur. As the rail spur and surrounding soils will be removed as part of the Phase 2 excavation a loading area pad will not be constructed.
- Phase 2: Excavation in this area will require removal of portions and/or impact the structural integrity of the rail spur and therefore materials will need to be transported to the Temporary Soil Stockpile Area.
- Phase 3: Excavation in this area could impact the structural integrity of the Site's main rail line. This is the portion of the rail owned by Mallinckrodt which provides the access to the Temporary Soil Stockpile Area. Excavations in this area will need to occur when rail traffic is temporarily suspended to reduce loading on the excavation area. These activities will be coordinate by the Remediation Project Manager with other Site activities and Pan-Am. After completion of the excavation activities the main line will be restored to allow access to the Temporary Soil Stockpile Area.

Additional notes regarding the excavation are provided below.

- Excavations will be completed in the dry. See Section 4.6.2 below.
- Care will be taken such that materials requiring off-site disposal will not be mixed with materials that are below the MPS (see Soil Use Plan in **Appendix J**).
- In order to minimize the over excavation of non-impacted material, it is anticipated that the excavation work will begin in those areas where the final bottom elevation is relatively shallow and progress towards the deeper excavation depths. Therefore, work will generally progress from south to north.
- Non-impacted material will be available for re-used for shoring and sloping as the excavation progresses to the deeper elevations.
- Throughout the excavation activities, the bottom and sides of each excavation area and the excavated materials will be visually inspected for elemental mercury. If observed, material containing elemental mercury will be segregated separately in the Temporary Soil Stockpile Area for disposal at an appropriate off-site facility.
- To the extent practical over-excavation will be minimized.

4.6.2 Excavation Dewatering

Water encountered within the excavations prior to obtaining the limits shown on **Drawing 10** will be considered contact water and will require treatment at the on-site GWTP. Based on groundwater level measurements observed from monitoring wells and piezometers located along the eastern and western perimeter of the landfill, the static groundwater elevation may be above the bottom of excavation. In addition, a gravel seam was detected in the northeast portion of the landfill which may be a conduit for groundwater flow into the excavation. To reduce the amount of groundwater which may infiltrate into the excavation a temporary sheet pile wall will be installed in the northeastern

portion of the Landfill 2 area (labelled Sheet Pile Wall on **Drawing 12**). Incremental excavation and backfilling will also be conducted to reduce the volume of contact water that may occur at any given time.

Groundwater levels in the excavation area will be maintained at least one foot below the bottom of the excavation. Sumps and/or well points will be used to remove contact water from the excavation areas. Contact water generated from precipitation events and groundwater inflows will be transferred to the GWTP either in tanker trucks or via pipe. Calculations for the necessary storage capacity to manage the anticipated quantity of contact water are presented in **Appendix I-2**. The means and methods that the Remediation Contractor will use to dewater the excavations (e.g. sumps, well points) and transport the contact water to the on-site GWTP will be presented in the Remediation Contractor's Construction Water Management Plan.

4.6.3 Excavation Support/Stability

Stability of the excavation sidewalls will be maintained by sloping, benching and/or shoring (e.g. sheet piles, soldier pile and lagging, trench boxes, etc.) in compliance with applicable safety regulations and the Site HASP (CDM Smith, 2014a).. Slope stability analysis for the excavation work is presented in **Appendix I-3**. Excavated slopes through existing material shall be 2.5 horizontal to 1 vertical or shallower. Clean backfill may be placed at a slope of 2 horizontal to 1 vertical or shallower. Vertical 5 ft tall benches may be cut; however, they are to be buttressed at the end of every workday with sloped clean backfill. The Remediation Contractor's Excavation and Restoration Plan will describe the proposed sloping and shoring approach.

4.6.4 Excavation As-Built Survey and Backfill

The limits of the excavation will be as-built surveyed at each control point location (e.g. confirmation sample location) and bottom elevations by a surveyor licensed in the State of Maine.

Backfilling will be incrementally performed once excavation has been completed in designated areas to the elevations shown on **Drawing 10** and post-excavation bottom and sidewall confirmation sampling has confirmed no material that will be left in place exceeds the MPS criteria. The excavation areas will be backfilled in accordance with the Specifications (**Appendix G**) and Soil Use Plan (**Appendix J**). The excavation and backfilling sequencing will be presented in the Remediation Contractor's Excavation and Restoration Work Plan.

4.6.5 Transportation and Disposal

Transportation and disposal activities will be completed in accordance with the Logistics Work Plan (CDM Smith, 2015d) currently under review by the Maine DEP. The material will be disposed of based on the criteria outlined in Section 2.1.2. Waste profile samples will be collected at a rate determined by the disposal facility. A waste profile(s) will be developed for the material and sent to the appropriate disposal facility for acceptance.

It is anticipated that the majority of the material from the Landfill 2 area will be transported via rail car. In general, soils will be placed in the Temporary Soil Stockpile Area (**Drawing 6**) and then loaded into the rail cars. Direct loading into the rail cars may also be performed.

4.7 Stormwater Management

Calculations provided in **Appendix I-4** show that the post-remediation condition peak flow rates will be less than the pre-remediation peak flow rates under all evaluated design storms. The graded slope under the post-remediation condition is 5% to 10%, which satisfies the requirement of the Maine

Erosion and Sediment (ESC) Manual (Maine DEP 2015). No additional stormwater diversions are required since the Landfill 2 area will be stabilized by permanent vegetation, and the length of graded slope is less than 100 feet (i.e. no concentrated flow is expect to happen). The calculations show that the final grading and stormwater management plans presented on **Drawings 13** and **15,** respectively are sufficient to handle stormwater under the requirements of Maine regulations.

4.8 Final Grading

Design objectives for the Landfill 2 area include stabilizing the area against erosion. As shown on **Drawings 13 and 15**, much of the backfilled Landfill 2 area will be final graded to slope at approximately 2 percent toward the Southerly Stream. Localized slopes adjacent to the rail line and the Southerly Stream will be steeper. The final grades will be achieved by backfilling the excavation with On-Site Reused Material and/or common fill from off-site. Six inches of topsoil will be placed over the area and seeded. The seed mix is designed for erosion control and vegetation restoration.

Excavations in the portion of the Southerly Stream adjacent to Landfill 2 will be restored as part of the Southerly Stream CMI and will be backfilled to within 2 feet of the existing elevations or left at the excavation bottom grades until that time.

Section 5.
Permitting

The Landfill 2 remediation requires the following permits:

- Natural Resources Protection Act Permit (NRPA); per NRPA there is a 75-foot setback measured horizontally of the normal high water line of a great pond, river, stream or brook or the upland edge of a coastal wetland or freshwater wetland (Protected Natural Resources). NRPA also applies to projects located within essential habitats of a threatened or endangered species. The overall remediation project qualifies for a Permit by Rule Category #13 – Habitat Creation or Enhancement and Water Quality Improvement Activities. A PBR Application was previously filed for the Landfill Ridge CMI and presumptive approval was received 14 calendar days thereafter (i.e., no comments received). NRPA rules allow PBR applications to be submitted for work to be completed in two-year increments. The Maine DEP (Jim Beyer) indicated that the Landfill Ridge PBR application applies to the entire project and that the only additional information required under the PBR is the CMI for each phase of work that occurs within the 75-foot setback and/or located within essential habitats, including the northern portion of the Southerly Stream. The application consists of a one-page NRPA notification form, a cover letter and additional project information, figures, project plans, and documentation of correspondence with USFWS and MDIFW, as applicable. Presumptive approval is granted if no response is issued within 14 days of submittal and the permit is valid for two years. Following completion of each phase, photographs of the affected area should be submitted to DEP.

- United States Fisheries and Wildlife Service (USFWS) and/or Maine Department of Inland Fisheries and Wildlife (MDIFW) Consultation; because the Northern Long-Eared Bat (NLEB) was listed as a federally threatened species since initial contact with USFWS, follow-up consultation is also required that will result in a determination of the precautions to be taken to reduce the risk of impact to potential NLEB habitat which may exist along the northern portion of the Southerly Stream.

- Maine Construction General Permit (CGP); Maine DEP has been delegated authority by the USEPA under the National Pollutant Discharge Elimination System (NPDES) permit program to issue stormwater permits for construction activities (which include excavation, dredging, and filling). This permit is required for construction activities that result in greater than one acre of land disturbance. To address this requirement, a Notice of Intent (NOI) will be submitted, consisting of a one-page notification form, a cover letter, an Erosion and Sedimentation Control Plan, and project figures and plans. Additionally, if work is to occur within an essential habitat of threatened or endangered species, documentation of approval from MDIFW must also be submitted. A Notice of Termination must be submitted at the completion of construction activities. Presumptive approval is granted if no response is issued within two weeks of submittal. The expiration of the permit is variable and it can be reissued.

- Maine State General Permit; per the Maine General Permit and overseen by the United States Army Corps of Engineers (USACE), either a USACE Category 1 Self-Verification Form or a USACE Category 2 Pre-Construction Notification must be filed for special activities including removal of hazardous or toxic materials within Inland and Navigable Waters of the United States. Landfill 2 is surrounded by jurisdictional wetlands that is within the limits of excavation for Landfill 2. The category determination is dependent on the square footage of direct wetland impact; based on the limits of excavation, more than 15,000 sf of direct wetland impact is anticipated and therefore a Category 2 Pre-Construction Notification must be filed. The Category 2 Application consists of multi-page notification form (ENG Form 4345) and requires detailed information about the existing conditions, including natural resource areas and federal-listed threatened and endangered species on-site, in addition to project plans and project locus figures. For Category 2 Applications, work can only begin with the written consent from the Corps. For such special activities the wetlands altered must be restored in place.

Section 6. Schedule

The anticipated schedule for the Landfill Ridge Area CMI Plan is included as **Table 6-1.**

Table 6-1: Proposed Schedule for Landfill 2 CMI Plan.

Task	Anticipated Start Date	Anticipated End Date
Submit DRAFT Landfill 2 CMI Plan to Maine DEP	Jan 13, 2016	Jan 13, 2016
Maine DEP CMI Plan Meeting	Feb 23, 2016	Feb 23, 2016
Maine DEP Review	Jan 14, 2016	Mar 14, 2016
Procurement of Remedial Contractor	Jan 27, 2016	March 30, 2016
Submission of Remedial Contractor Work Plans	March 31, 2016	May 2, 2016
Maine DEP Review of Work Plan	May 3, 2016	June 3, 2016
Finalize CMI Plan	July 15, 2016	July 29, 2016
Maine DEP Final Review and Approval	Aug 1, 2016	Aug 18, 2016
Mobilize for Construction Activities	Aug 19, 2016	Aug 25, 2016

Section 7. References

ASTM D422-63 (2007) e2, Standard Test Method for Particle-Size Analysis of Soils, ASTM International, West Conshohocken, PA, 2007, www.astm.org

ASTM D4318-10e1, Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils, ASTM International, West Conshohocken, PA, 2010, www.astm.org

ASTM D2487-11, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), ASTM International, West Conshohocken, PA, 2011, www.astm.org

ASTM D2216-10, Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass, ASTM International, West Conshohocken, PA, 2010, www.astm.org

Camp Dresser & McKee Inc. (CDM), 1998. Site Investigation Report, HoltraChem Manufacturing Site, Orrington, Maine, Volume I Text. December 22, 1998; Revised August 15, 2001.

CDM, 2000. Landfill #2 Investigation Results, HoltraChem Manufacturing Site, Orrington, Maine. October 31, 2000

CDM Smith, Inc, 2014a. Health and Safety Plan, Orrington Remediation Site, Orrington, Maine, October 9.

CDM Smith, Inc, 2014b. Landfill Phase I Pre-Design Work Plan, Orrington Remediation Site, Orrington, Maine, December 10.

CDM Smith, Inc, 2015a. Quality Assurance Project Plan, Revision 1, Orrington Remediation Site, Orrington, Maine, September 4.

CDM Smith, Inc, 2015b. Revised Landfills 1 & 2Phase II Pre-Design Work Plan, Orrington Remediation Site, Orrington, Maine, May 15.

CDM Smith, Inc. 2015c. Revised Plant Areas Pre-Design Work Plan (Including the Scrap Metal Yard, Southerly Stream and Northern Ditch), Orrington Remediation Site, Orrington, Maine, September 4, 2015.

CDM Smith, Inc. 2015d. Landfill Ridge CMI, Orrington Remediation Site, Orrington, Maine, October 28, 2015.

CDM Smith, Inc. 2015e. Perimeter Air Monitoring Plan (PAMP), Orrington Remediation Site, Orrington Maine, October 30, 2015.

CDM Smith, Inc. 2015f. Scrap Metal Yard CMI, Orrington Remediation Site, Orrington, Maine, November 9, 2015.

CDM Smith, Inc. 2015g. Logistics Work Plan, Orrington Remediation Site, Orrington Maine, April 15.

Maine DEP, 2008. Compliance Order: Designation of Uncontrolled Hazardous Substance Site and Order in the Matter of United States Surgical Corporation, Mallinckrodt LLC Concerning a Chloralkali Manufacturing Facility in Orrington, Penobscot County, Maine Formerly Owned

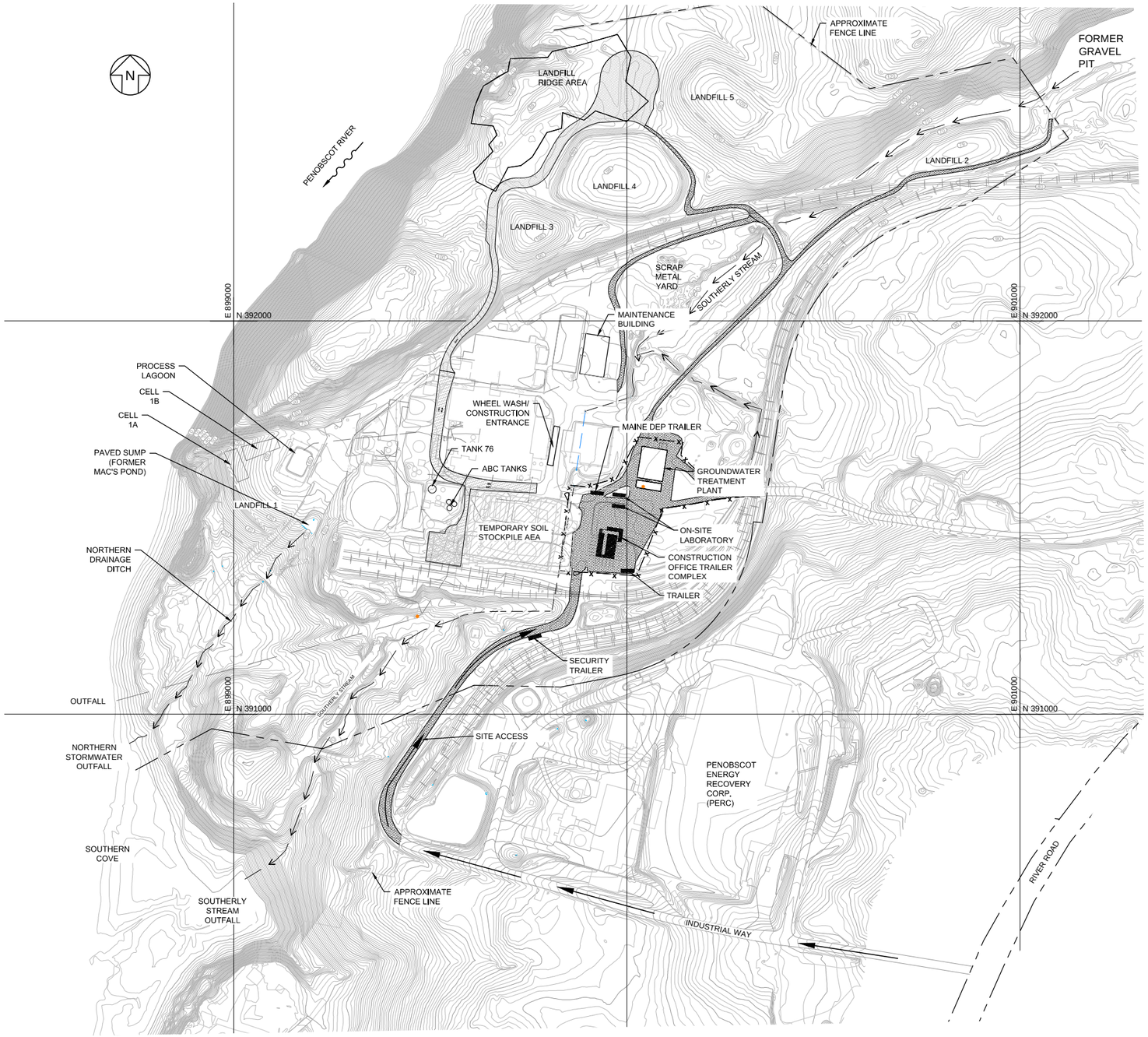
and Operated by Mallinckrodt Inc., Proceeding Under 38 M.R.S.A. § 1365, Uncontrolled Hazardous Substance Sites Law; November 24.

Maine DEP, 2013. Maine Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances. Bureau of Remediation and Waste Management. May 8, 2013.Maine BEP, 2014. Mallinckrodt US LLC et al. v. Department of Environmental Protection. April 3, 2014.

Maine DEP. (2015). Maine Erosion and Sediment Control Practices Field Guide for Contractors. Maine Department of Environment Protection

United States Environmental Protection Agency, Final Hazardous Remediation Waste Management Requirement ("HWIR-Mega Rule"), 63 Federal Register 65877; November 30, 1998

United States Environmental Protection Agency, Land Disposal Restrictions Phase IV, 63 Federal Register 28621; May 26, 1998



LEGEND

- PROPERTY LINE
- EXISTING GROUND ELEVATION (FT)
- FENCE LINE
- ROADWAY
- RAILROAD
- SOUTHERLY STREAM CULVERT
- SOUTHERLY STREAM / NORTHERN DITCH

0 150' 300'
SCALE IN FEET

NOTES:

1. THE SITE IS LOCATED AT 99 INDUSTRIAL WAY, ORRINGTON MAINE 04474.
2. EXISTING TOPOGRAPHY AND SITE FEATURES ARE BASED ON A SURVEY CONDUCTED BY THE JAMES W. SEWALL COMPANY IN 2003 AND PROVIDED IN CDMSMITH DRAWING "38410C_MASTER-SURVEY.DWG" AND ARE UPDATED BY CES, INC. OF BANGOR MAIN. THE HORIZONTAL DATUM IS NAD83 (NORTH AMERICAN DATUM 1983) MAINE STATE PLANE (EAST ZONE) AND THE VERTICAL DATUM IS NAVD 88 (NORTH AMERICAN VERTICAL DATUM 1988).
3. HISTORICAL INVESTIGATION LOCATIONS ARE APPROXIMATE AND HAVE BEEN OBTAINED FROM VARIOUS HISTORICAL DOCUMENTS.
4. STRUCTURES HAVE BEEN DEMOLISHED AND ONLY FOUNDATIONS REMAIN, WITH THE EXCEPTION OF IDENTIFIED WHICH REMAIN.

SITE PLAN

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

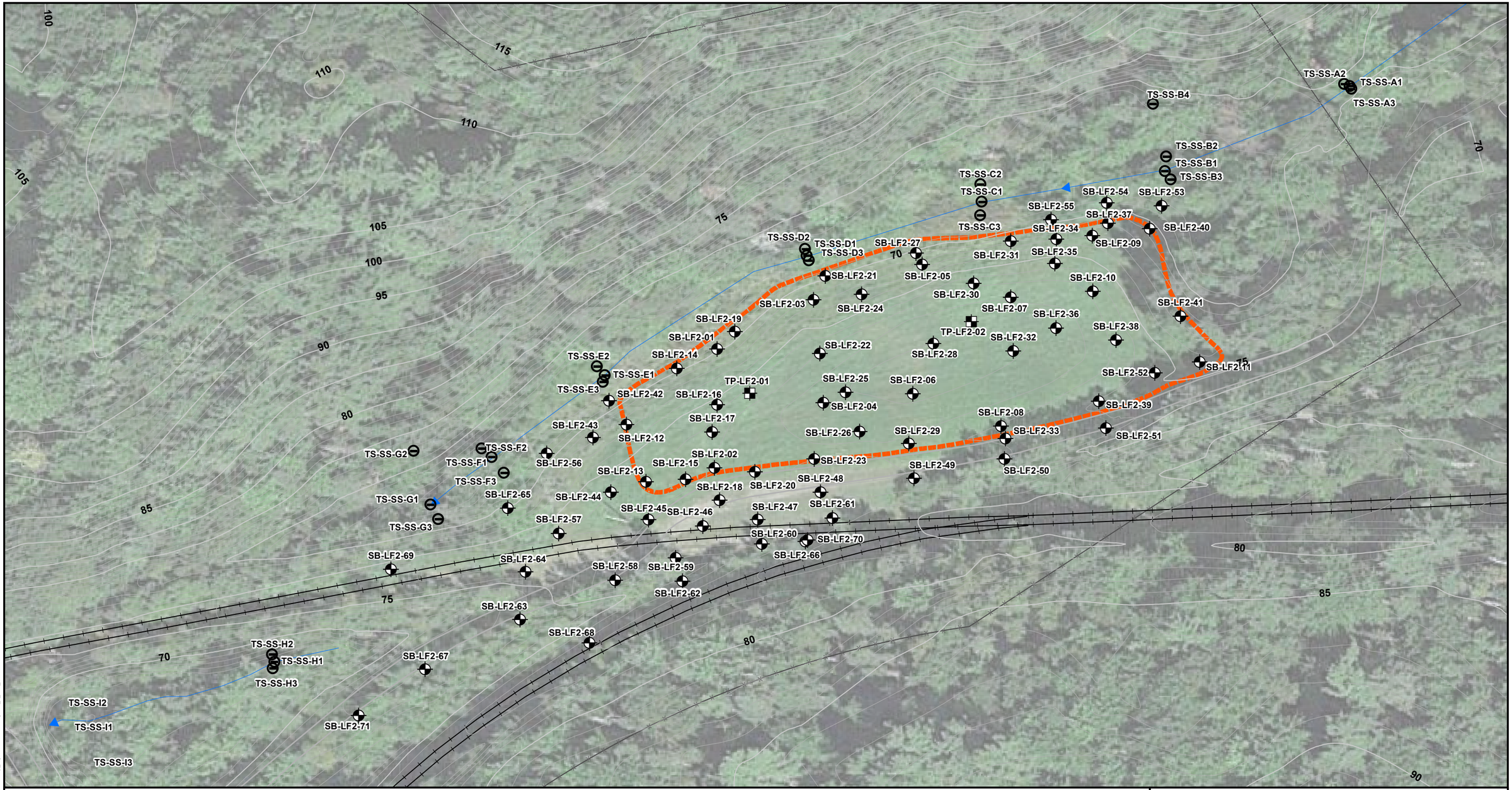
CDM Smith | Geosyntec consultants

Acton, MA | OCTOBER 2015

Figure: 1-1

CMI PLAN

T:\PROJECTS_CADD\ORRINGTON\ORRINGTON ME REMEDIATION II\CONSTRUCTION\LANDFILL RIDGE-CMI\FIGURES\BR0292-LFR_CMI-F01-1



LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- EXISTING GROUND ELEVATION (FEET)
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. EXISTING TOPOGRAPHY AND SITE FEATURES ARE BASED ON A SURVEY CONDUCTED BY THE JAMES W. SEWALL COMPANY IN 2003 AND PROVIDED IN CDMSMITH DRAWING "38410C_MASTER-SURVEY.DWG". THE HORIZONTAL DATUM IS NAD83 (NORTH AMERICAN DATUM 1983) MAINE STATE PLANE (EAST zONE) AND THE VERTICAL DATUM IS NAVD 88 (NORTH AMERICAN VERTICAL DATUM 1988).
2. HISTORICAL INVESTIGATION LOCATIONS ARE APPROXIMATE AND HAVE BEEN OBTAINED FROM VARIOUS HISTORICAL DOCUMENTS.
3. PRE-DESIGN INVESTIGATION LOCATIONS OBTAINED BY CES, INC OF BANGOR MAINE BETWEEN THE DATES OF JUNE 15, 2015 AND OCTOBER 15, 2015.

N

0 70'

SCALE IN FEET

LANDFILL 2
PRE-DESIGN INVESTIGATION LOCATIONS
ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-1

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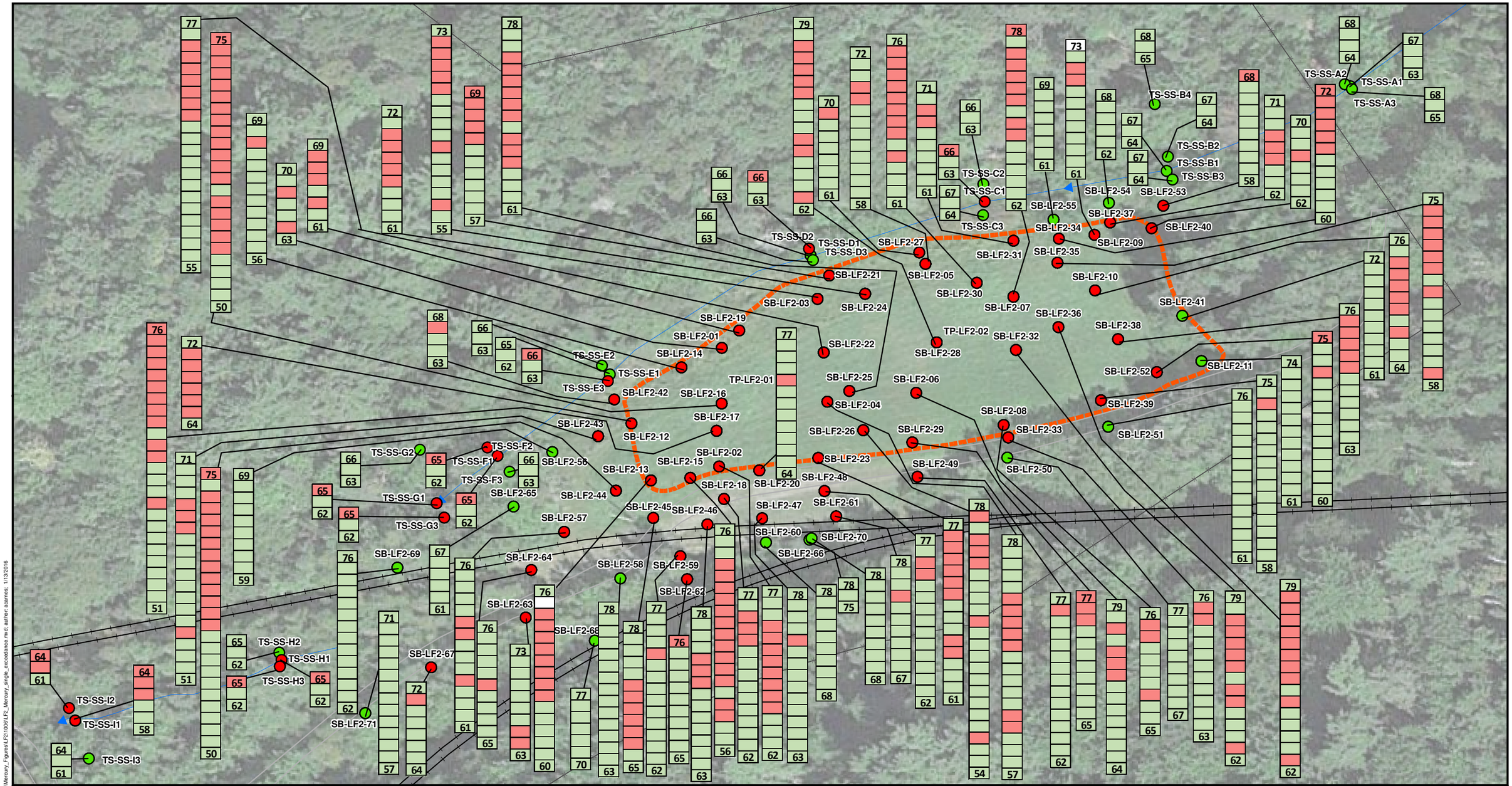

LEGEND

- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)
- Location with one or more Mercury Exceedances (XRF, Alpha, and/or DMA)
- Location with each sample below MPS (highest concentration of DMA and Alpha)

84 Ground Surface Elevation (ft NGVD)

77 Bottom Elevation of Boring (ft NGVD)

Exceeds mercury MPS of 2.2 mg/kg

Sample below the MPS of 2.2 mg/kg

No Sample

N

0 70'

SCALE IN FEET

LANDFILL 2 PRE-DESIGN INVESTIGATION MERCURY RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-2

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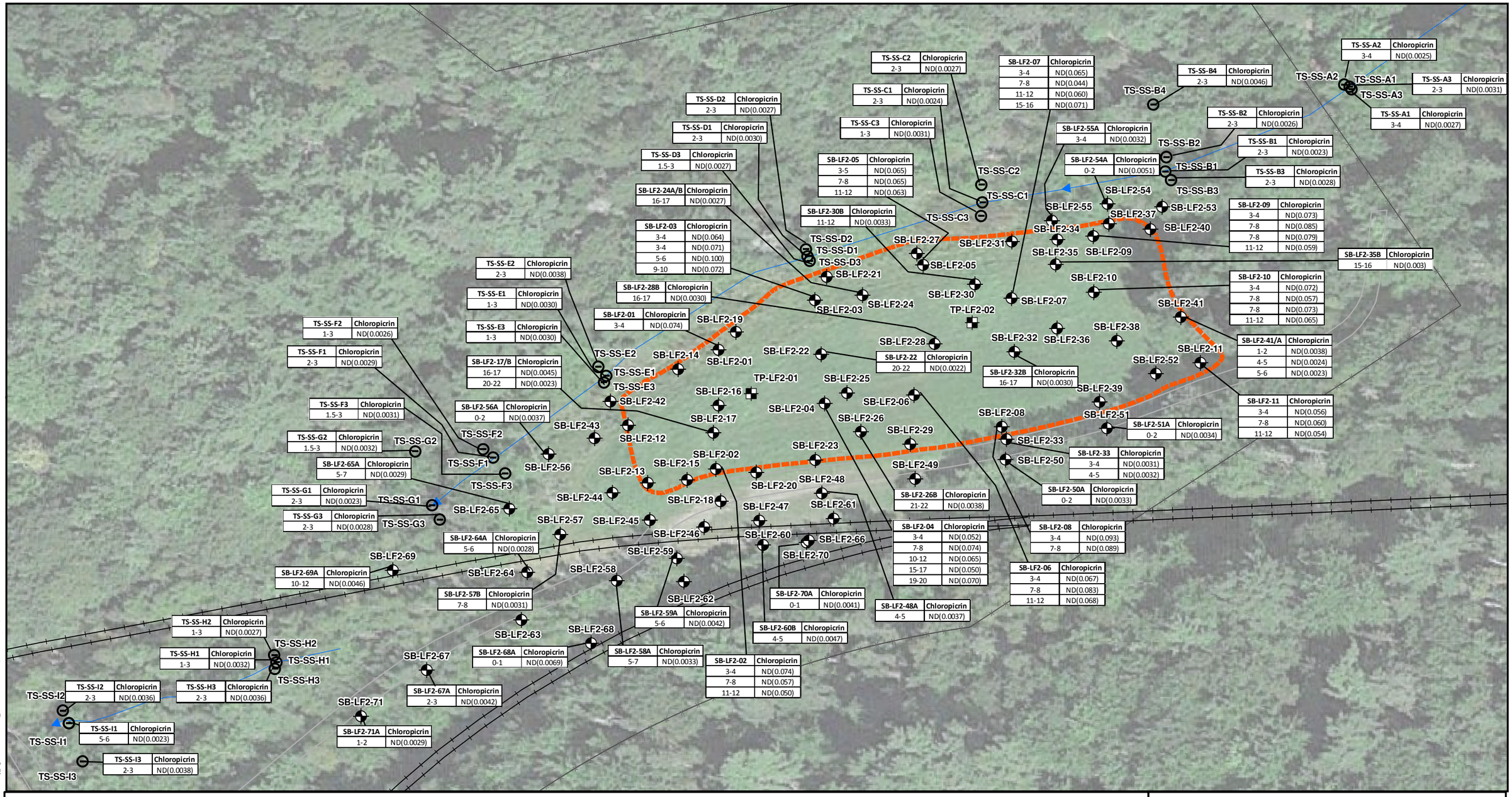

LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. Posted data are from the Landfills Pre-Design Investigation.
2. ND (XX) indicates that the compound was not detected above XX.
3. "J" indicates that mercury was detected between the detection limit and the reporting limit.
4. Duplicate results are shown below the original sample interval.

Location Name	Parameter
Depth (feet)	Chloropicrin Concentration (mg/kg)

N

0 70'

SCALE IN FEET

LANDFILL 2 PRE-DESIGN INVESTIGATION CHLOROPICRIN RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-3

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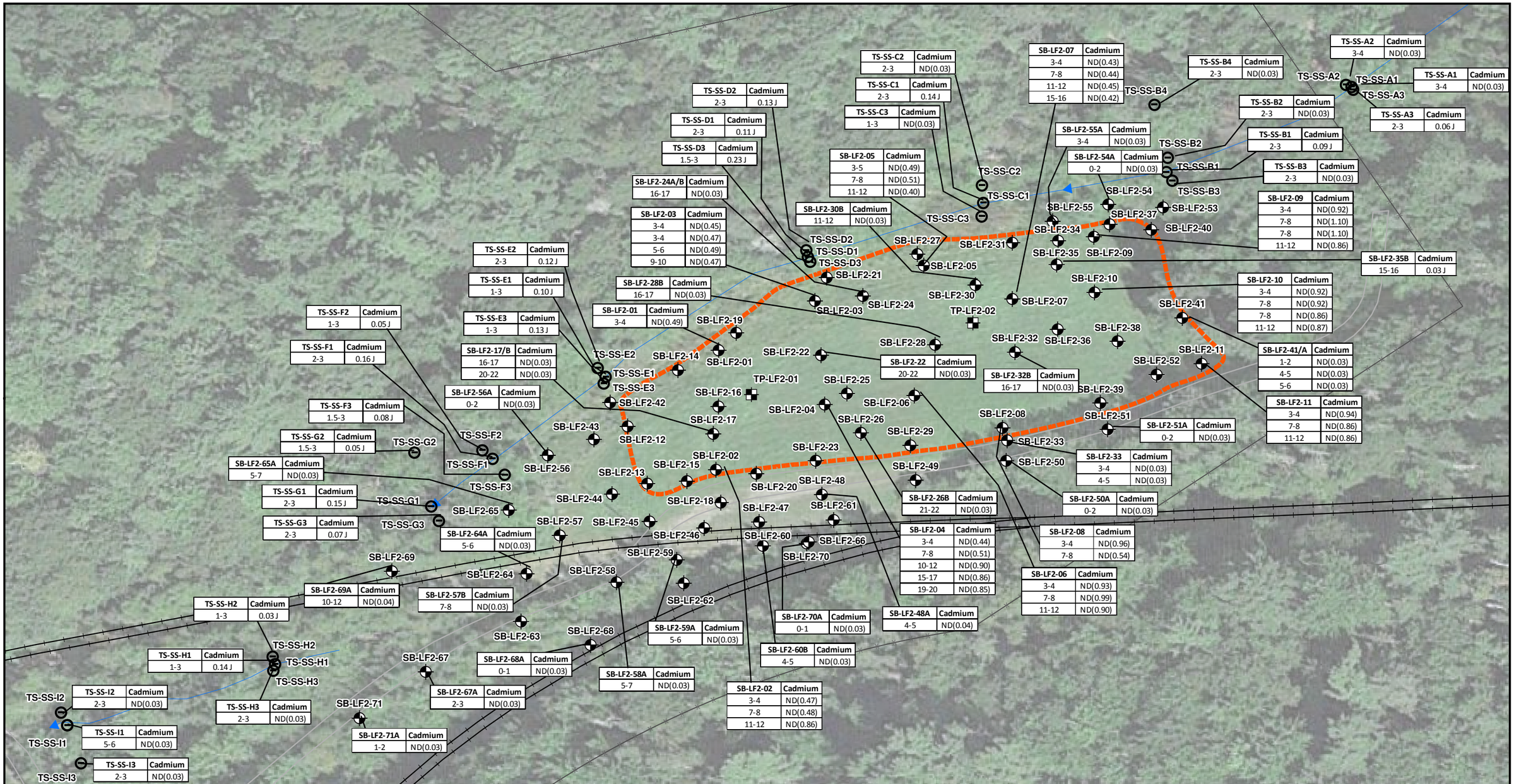

LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. Posted data are from the Landfills Pre-Design Investigation.
2. ND (XX) indicates that the compound was not detected above XX.
3. "J" indicates that mercury was detected between the detection limit and the reporting limit.
4. Duplicate results are shown below the original sample interval.

Location Name	Parameter
Depth (feet)	Cadmium Concentration (mg/kg)

N

0 70'

SCALE IN FEET

LANDFILL 2 PRE-DESIGN INVESTIGATION CADMIUM RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-4

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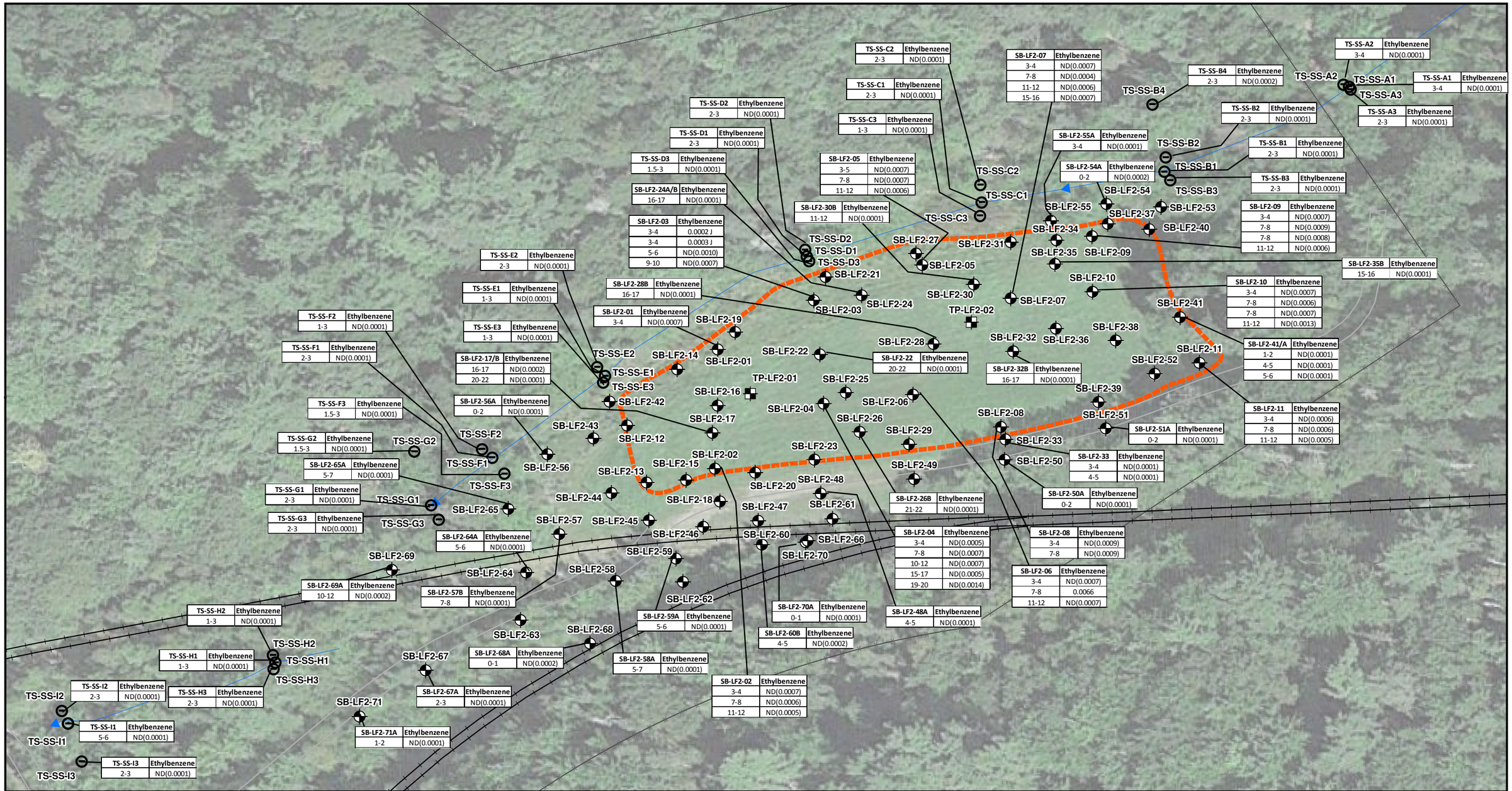

LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. Posted data are from the Landfills Pre-Design Investigation.
2. ND (XX) indicates that the compound was not detected above XX.
3. "J" indicates that mercury was detected between the detection limit and the reporting limit.
4. Duplicate results are shown below the original sample interval.

Location Name	Parameter
Depth (feet)	Ethylbenzene Concentration (mg/kg)

N

0 70'

SCALE IN FEET

LANDFILL 2 PRE-DESIGN INVESTIGATION ETHYLBENZENE RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-5

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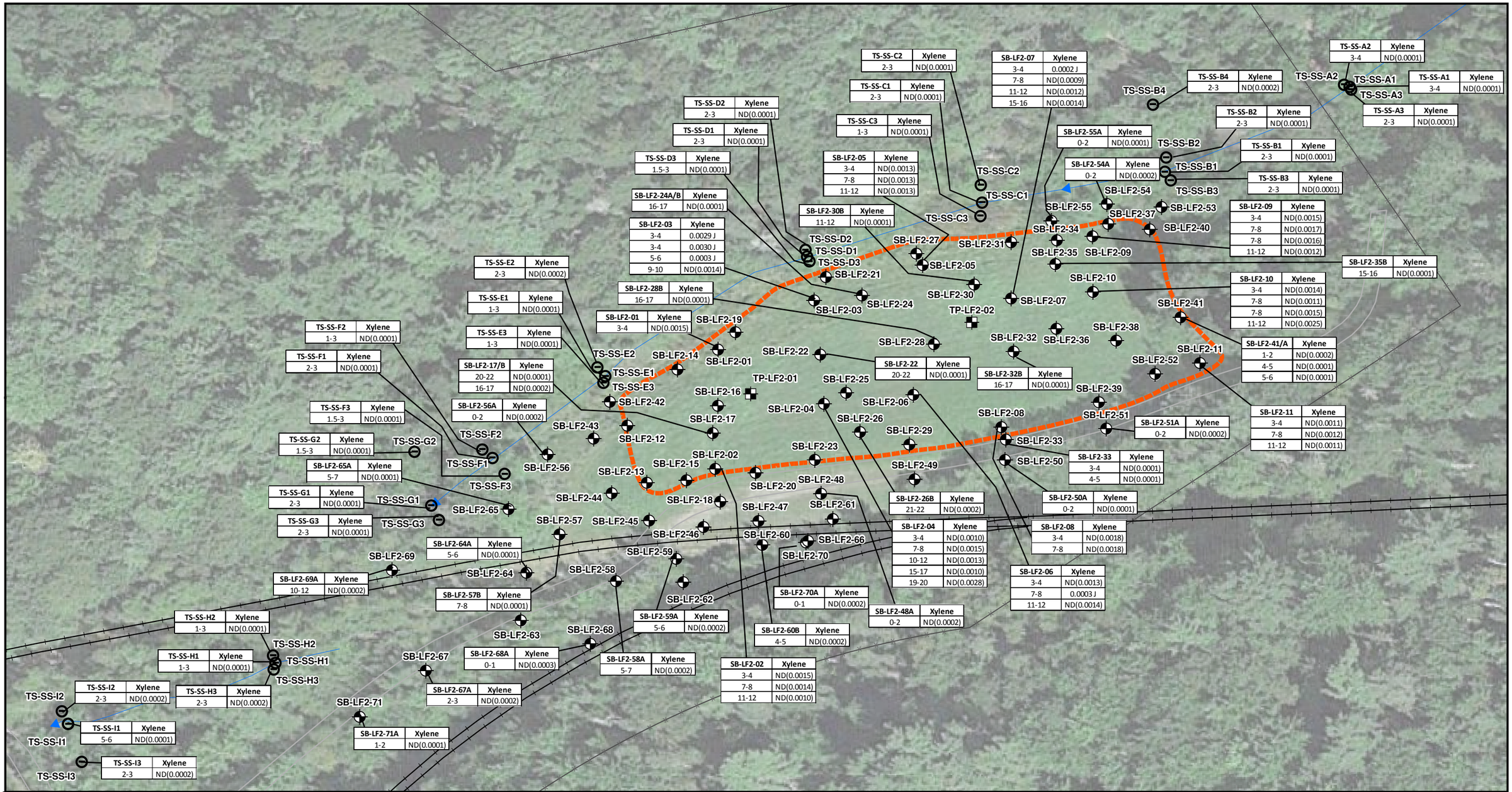

LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. Posted data are from the Landfills Pre-Design Investigation.
2. ND (XX) indicates that the compound was not detected above XX.
3. "J" indicates that mercury was detected between the detection limit and the reporting limit.
4. Duplicate results are shown below the original sample interval.

Location Name	Parameter
Depth (feet)	Xylene Concentration (mg/kg)

N

0 70'

SCALE IN FEET

LANDFILL 2
PRE-DESIGN XYLENE RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-6

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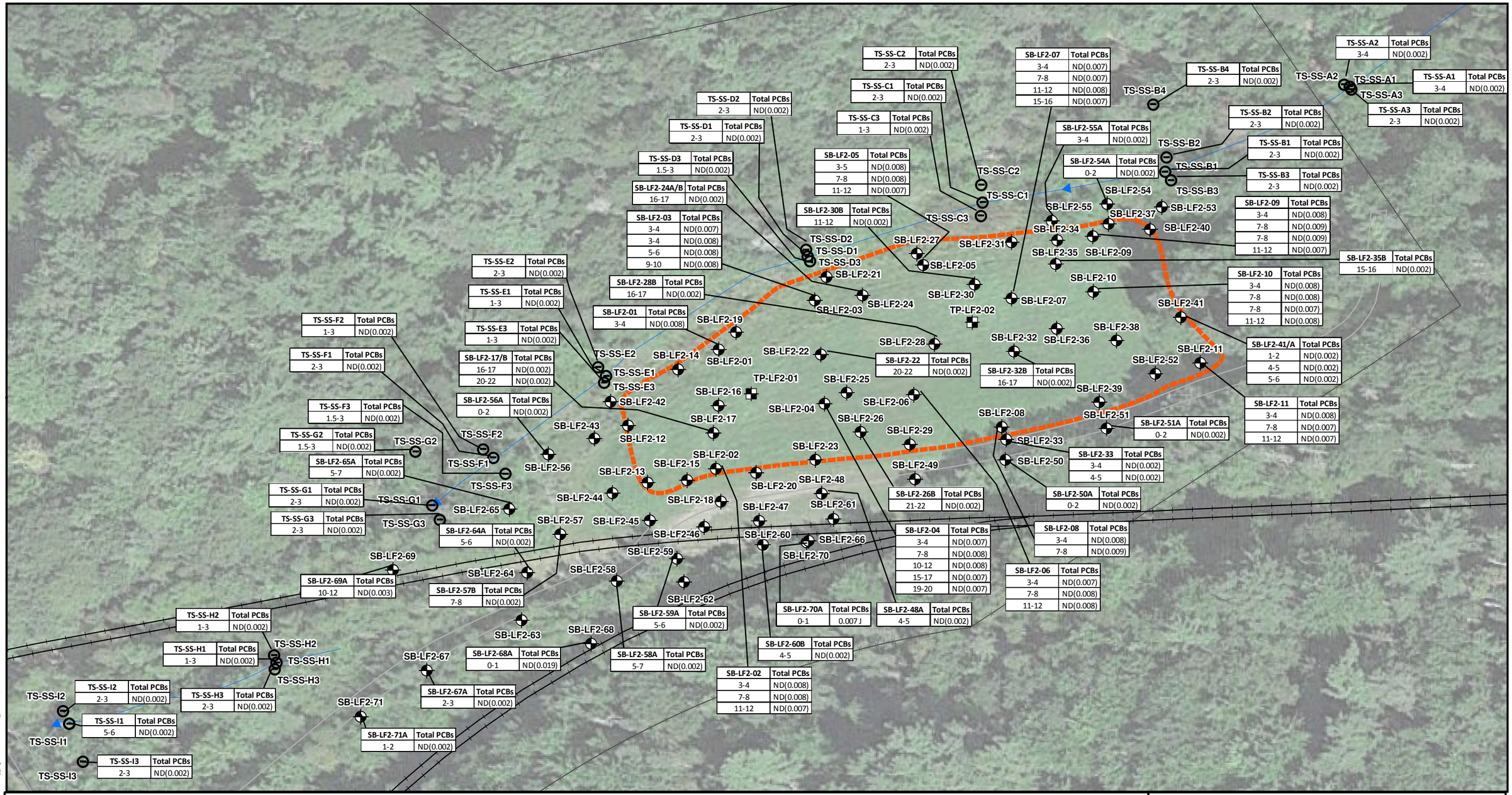

LEGEND

- PRE-DESIGN SOIL BORING
- PRE-DESIGN TEST PIT
- PRE-DESIGN TRANSECT LOCATION
- SOUTHERLY STREAM
- APPROXIMATE LIMIT OF LANDFILL (FROM CMS REPORT)

NOTES:
1. Posted data are from the Landfills Pre-Design Investigation.
2. ND (XX) indicates that the compound was not detected above XX.
3. "J" indicates that mercury was detected between the detection limit and the reporting limit.
4. Duplicate results are shown below the original sample interval.

Location Name	Parameter
Depth (feet)	Total PCB's Concentration (mg/kg)

N

0 70'

SCALE IN FEET

LANDFILL 2 PRE-DESIGN INVESTIGATION PCB RESULTS

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | JANUARY 2016

Figure: 2-7

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APPENDIX A

Landfill 2 Pre-Design Investigation Analytical Data

A-1 Landfill 2 and Southerly Stream – Pre-Design Mercury Analysis

A-2 Landfill 2 and Southerly Stream – Pre-Design Additional COCs with Soil MPS

A-3 Landfill 2 and Southerly Stream – Pre-Design Total VOCs

A-4 Landfill 2 – Pre-Design Preliminary Waste Characterization

A-5 Landfill 2 and Southerly Stream – Pre-Design Brine Sludge Characterization Parameters

A-6 Landfill 2 and Southerly Stream – Pre-Design Mercury Speciation

DRAFT

APPENDIX A-1

Landfill 2 and Southerly Stream – Pre-Design Mercury Analysis

DRAFT

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-01-141218-0-1	0-1	12/18/2014	0	0.592		0.26	
Landfill 2	SB-LF2-01-141218-1-2	1-2	12/18/2014	0	0.085		0.14	
Landfill 2	SB-LF2-01-141218-2-3	2-3	12/18/2014	**68**	--		--	
Landfill 2	SB-LF2-01-141218-3-4	3-4	12/18/2014	0	1.440		1.5	
Landfill 2	SB-LF2-01-141218-4-5	4-5	12/18/2014	0	0.087		0.04	J
Landfill 2	SB-LF2-01-141218-5-6	5-6	12/18/2014	0	0.524		**4.5**	
Landfill 2	SB-LF2-01-141218-6-7	6-7	12/18/2014	0	0.094		0.08	
Landfill 2	SB-LF2-02-141218-0-1	0-1	12/18/2014	0	0.227		0.39	
Landfill 2	SB-LF2-02-141218-1-2	1-2	12/18/2014	0	0.170		0.45	
Landfill 2	SB-LF2-02-141218-2-3	2-3	12/18/2014	0	1.216		1.6	
Landfill 2	SB-LF2-02-141218-3-4	3-4	12/18/2014	**27**	--		**10**	
Landfill 2	SB-LF2-02-141218-4-5	4-5	12/18/2014	**309**	--		--	
Landfill 2	SB-LF2-02-141218-5-6	5-6	12/18/2014	**232**	--		--	
Landfill 2	SB-LF2-02-141218-6-7	6-7	12/18/2014	**513**	--		--	
Landfill 2	SB-LF2-02-141218-7-8	7-8	12/18/2014	**697**	--		**600**	
Landfill 2	SB-LF2-02-141218-8-9	8-9	12/18/2014	**1,064**	--		--	
Landfill 2	SB-LF2-02-141218-9-10	9-10	12/18/2014	**213**	--		--	
Landfill 2	SB-LF2-02-141218-10-11	10-11	12/18/2014	**23**	--		--	
Landfill 2	SB-LF2-02-141218-11-12	11-12	12/18/2014	13	0.116		0.64	
Landfill 2	SB-LF2-02-141218-12-13	12-13	12/18/2014	0	0.068		0.1	
Landfill 2	SB-LF2-02-141218-13-14	13-14	12/18/2014	0	0.125		1.1	
Landfill 2	SB-LF2-02-141218-14-15	14-15	12/18/2014	0	0.228		0.11	
Landfill 2	SB-LF2-03-141218-0-1	0-1	12/18/2014	0	1.343		1	
Landfill 2	SB-LF2-03-141218-1-2	1-2	12/18/2014	0	0.130		0.54	
Landfill 2	SB-LF2-03-141218-2-3	2-3	12/18/2014	**319**	--		--	
Landfill 2	SB-LF2-03-141218-3-4	3-4	12/18/2014	**226**	--		**160**	
Landfill 2	SB-LF2-03-141218-4-5	4-5	12/18/2014	10	**4.708**		--	
Landfill 2	SB-LF2-03-141218-5-6	5-6	12/18/2014	**43**	--		**94**	
Landfill 2	SB-LF2-03-141218-6-7	6-7	12/18/2014	**49**	--		--	
Landfill 2	SB-LF2-03-141218-7-8	7-8	12/18/2014	0	0.313		0.63	
Landfill 2	SB-LF2-03-141218-8-9	8-9	12/18/2014	0	0.103		0.03	J
Landfill 2	SB-LF2-03-141218-9-10	9-10	12/18/2014	0	0.048		0.04	J
Landfill 2	SB-LF2-03-141218-10-11	10-11	12/18/2014	0	0.032		0.03	J
Landfill 2	SB-LF2-04-141218-0-1	0-1	12/18/2014	0	0.324		0.27	
Landfill 2	SB-LF2-04-141218-1-2	1-2	12/18/2014	0	0.656		0.73	
Landfill 2	SB-LF2-04-141218-2-3	2-3	12/18/2014	0	0.378		0.29	
Landfill 2	SB-LF2-04-141218-3-4	3-4	12/18/2014	0	1.048		1.2	
Landfill 2	SB-LF2-04-141218-4-5	4-5	12/18/2014	0	0.237		0.75	
Landfill 2	SB-LF2-04-141218-5-6	5-6	12/18/2014	8	**50.948**		--	
Landfill 2	SB-LF2-04-141218-6-7	6-7	12/18/2014	**102**	--		--	
Landfill 2	SB-LF2-04-141218-7-8	7-8	12/18/2014	**47**	--		**92**	
Landfill 2	SB-LF2-04-141218-8-9	8-9	12/18/2014	0	**2.265**		1.6	
Landfill 2	SB-LF2-04-141218-9-10	9-10	12/18/2014	**25**	--		--	
Landfill 2	SB-LF2-04-141218-10-12	10-12	12/18/2014	0	0.218		0.63	
Landfill 2	SB-LF2-04-141218-12-15	12-15	12/18/2014	0	0.076		0.1	
Landfill 2	SB-LF2-04-141218-15-17	15-17	12/18/2014	**24**	--		**180**	
Landfill 2	SB-LF2-04-141218-17-18	17-18	12/18/2014	**20**	0.403		0.09	
Landfill 2	SB-LF2-04-141218-18-19	18-19	12/18/2014	**19**	0.101		0.03	J
Landfill 2	SB-LF2-04-141218-19-20	19-20	12/18/2014	0	0.112		0.08	ND
Landfill 2	SB-LF2-04-141218-20-21	20-21	12/18/2014	0	0.755		0.39	
Landfill 2	SB-LF2-05-141218-0-3	0-3	12/18/2014	0	0.120		0.11	
Landfill 2	SB-LF2-05-141218-3-5	3-5	12/18/2014	**23**	--		**49**	
Landfill 2	SB-LF2-05-141218-5-6	5-6	12/18/2014	0	0.845		0.94	

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-05-141218-6-7	6-7	12/18/2014	0	0.361		0.87	
Landfill 2	SB-LF2-05-141218-7-8	7-8	12/18/2014	0	0.331		0.31	
Landfill 2	SB-LF2-05-141218-8-9	8-9	12/18/2014	0	1.252		0.96	
Landfill 2	SB-LF2-05-141218-9-10	9-10	12/18/2014	0	0.068		0.02	J
Landfill 2	SB-LF2-05-141218-10-11	10-11	12/18/2014	0	0.243		0.23	
Landfill 2	SB-LF2-05-141218-11-12	11-12	12/18/2014	8	0.056		0.07	ND
Landfill 2	SB-LF2-05-141218-12-13	12-13	12/18/2014	0	0.182		0.12	
Landfill 2	SB-LF2-05-141218-13-14	13-14	12/18/2014	0	0.005		0.09	
Landfill 2	SB-LF2-06-141217-0-1	0-1	12/17/2014	0	0.189		0.42	
Landfill 2	SB-LF2-06-141217-1-2	1-2	12/17/2014	0	0.082		0.08	
Landfill 2	SB-LF2-06-141217-2-3	2-3	12/17/2014	**29**	--		--	
Landfill 2	SB-LF2-06-141217-3-4	3-4	12/17/2014	0	0.192		0.15	
Landfill 2	SB-LF2-06-141217-4-5	4-5	12/17/2014	15	**4.147**		--	
Landfill 2	SB-LF2-06-141217-5-6	5-6	12/17/2014	9	**20.992**		--	
Landfill 2	SB-LF2-06-141217-6-7	6-7	12/17/2014	0	**49.700**		--	
Landfill 2	SB-LF2-06-141217-7-8	7-8	12/17/2014	0	0.340		0.07	J
Landfill 2	SB-LF2-06-141217-8-9	8-9	12/17/2014	0	0.052		0.08	J
Landfill 2	SB-LF2-06-141217-9-10	9-10	12/17/2014	0	0.054		0.07	J
Landfill 2	SB-LF2-06-141217-10-11	10-11	12/17/2014	0	1.267		0.27	
Landfill 2	SB-LF2-06-141217-11-12	11-12	12/17/2014	0	0.030		0.03	J
Landfill 2	SB-LF2-06-141217-12-13	12-13	12/17/2014	0	0.021		0.04	J
Landfill 2	SB-LF2-06-141217-13-14	13-14	12/17/2014	0	0.128		0.067	J
Landfill 2	SB-LF2-06-141217-14-15	14-15	12/17/2014	0	0.105		0.08	ND
Landfill 2	SB-LF2-07-141217-0-1	0-1	12/17/2014	0	1.624		**3.5**	
Landfill 2	SB-LF2-07-141217-1-2	1-2	12/17/2014	0	0.181		0.5	
Landfill 2	SB-LF2-07-141217-2-3	2-3	12/17/2014	**119**	--		--	
Landfill 2	SB-LF2-07-141217-3-4	3-4	12/17/2014	**144**	--		**82**	
Landfill 2	SB-LF2-07-141217-4-5	4-5	12/17/2014	**329**	--		--	
Landfill 2	SB-LF2-07-141217-5-6	5-6	12/17/2014	**617**	--		--	
Landfill 2	SB-LF2-07-141217-6-7	6-7	12/17/2014	**344**	--		--	
Landfill 2	SB-LF2-07-141217-7-8	7-8	12/17/2014	**419**	--		0.12	
Landfill 2	SB-LF2-07-141217-8-9	8-9	12/17/2014	**119**	--		--	
Landfill 2	SB-LF2-07-141217-9-10	9-10	12/17/2014	**25**	--		--	
Landfill 2	SB-LF2-07-141217-10-11	10-11	12/17/2014	0	0.283		0.57	
Landfill 2	SB-LF2-07-141217-11-12	11-12	12/17/2014	0	0.160		0.12	
Landfill 2	SB-LF2-07-141217-12-13	12-13	12/17/2014	0	0.074		0.12	
Landfill 2	SB-LF2-07-141217-13-14	13-14	12/17/2014	0	0.065		0.09	
Landfill 2	SB-LF2-07-141217-14-15	14-15	12/17/2014	0	0.061		0.16	
Landfill 2	SB-LF2-07-141217-15-16	15-16	12/17/2014	0	0.437		0.31	
Landfill 2	SB-LF2-08-141217-0-1	0-1	12/17/2014	0	0.975		0.55	
Landfill 2	SB-LF2-08-141217-1-2	1-2	12/17/2014	**25**	--		--	
Landfill 2	SB-LF2-08-141217-2-3	2-3	12/17/2014	**18**	**9.936**		--	
Landfill 2	SB-LF2-08-141217-3-4	3-4	12/17/2014	0	0.420		0.15	
Landfill 2	SB-LF2-08-141217-4-5	4-5	12/17/2014	0	0.158		0.06	J
Landfill 2	SB-LF2-08-141217-5-6	5-6	12/17/2014	0	0.381		1	
Landfill 2	SB-LF2-08-141217-6-7	6-7	12/17/2014	7	0.363		0.38	
Landfill 2	SB-LF2-08-141217-7-8	7-8	12/17/2014	0	0.229		**360**	
Landfill 2	SB-LF2-08-141217-8-9	8-9	12/17/2014	0	0.083		0.08	ND
Landfill 2	SB-LF2-08-141217-9-10	9-10	12/17/2014	0	0.094		0.08	ND
Landfill 2	SB-LF2-08-141217-10-11	10-11	12/17/2014	0	0.079		0.08	ND
Landfill 2	SB-LF2-09-141217-0-1	0-1	12/17/2014	0	--		--	
Landfill 2	SB-LF2-09-141217-1-2	1-2	12/17/2014	8	0.243		0.32	
Landfill 2	SB-LF2-09-141217-2-3	2-3	12/17/2014	12	**191.732**		--	

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-09-141217-3-4	3-4	12/17/2014	**234**	--		**200**	
Landfill 2	SB-LF2-09-141217-4-5	4-5	12/17/2014	0	0.241		0.12	
Landfill 2	SB-LF2-09-141217-5-6	5-6	12/17/2014	0	0.684		0.71	
Landfill 2	SB-LF2-09-141217-6-7	6-7	12/17/2014	0	0.986		1.3	
Landfill 2	SB-LF2-09-141217-7-8	7-8	12/17/2014	0	0.285		0.86	
Landfill 2	SB-LF2-09-141217-8-9	8-9	12/17/2014	0	0.153		0.02	J
Landfill 2	SB-LF2-09-141217-9-10	9-10	12/17/2014	0	0.122		0.08	ND
Landfill 2	SB-LF2-09-141217-10-11	10-11	12/17/2014	0	0.279		0.26	
Landfill 2	SB-LF2-09-141217-11-12	11-12	12/17/2014	0	0.105		0.06	J
Landfill 2	SB-LF2-10-141217-0-1	0-1	12/17/2014	0	0.203		0.4	
Landfill 2	SB-LF2-10-141217-1-2	1-2	12/17/2014	0	0.062		0.09	
Landfill 2	SB-LF2-10-141217-2-3	2-3	12/17/2014	**165**	--		--	
Landfill 2	SB-LF2-10-141217-3-4	3-4	12/17/2014	**242**	--		**220**	
Landfill 2	SB-LF2-10-141217-4-5	4-5	12/17/2014	**79**	--		--	
Landfill 2	SB-LF2-10-141217-5-6	5-6	12/17/2014	**158**	--		--	
Landfill 2	SB-LF2-10-141217-6-7	6-7	12/17/2014	10	--		--	
Landfill 2	SB-LF2-10-141217-7-8	7-8	12/17/2014	**38**	--		0.8	
Landfill 2	SB-LF2-10-141217-8-9	8-9	12/17/2014	0	**8.397**		--	
Landfill 2	SB-LF2-10-141217-9-10	9-10	12/17/2014	0	0.629		0.13	
Landfill 2	SB-LF2-10-141217-10-11	10-11	12/17/2014	0	0.267		0.11	
Landfill 2	SB-LF2-10-141217-11-12	11-12	12/17/2014	0	0.231		0.05	J
Landfill 2	SB-LF2-11-141217-0-1	0-1	12/17/2014	0	0.198		0.33	
Landfill 2	SB-LF2-11-141217-1-2	1-2	12/17/2014	0	0.132		0.15	
Landfill 2	SB-LF2-11-141217-2-3	2-3	12/17/2014	0	0.104		0.23	
Landfill 2	SB-LF2-11-141217-3-4	3-4	12/17/2014	0	0.083		0.02	J
Landfill 2	SB-LF2-11-141217-4-5	4-5	12/17/2014	0	0.053		0.06	J
Landfill 2	SB-LF2-11-141217-5-6	5-6	12/17/2014	0	0.043		0.04	J
Landfill 2	SB-LF2-11-141217-6-7	6-7	12/17/2014	0	0.031		0.18	
Landfill 2	SB-LF2-11-141217-7-8	7-8	12/17/2014	0	0.038		0.07	ND
Landfill 2	SB-LF2-11-141217-8-9	8-9	12/17/2014	0	0.032		0.07	J
Landfill 2	SB-LF2-11-141217-9-10	9-10	12/17/2014	0	0.031		0.05	J
Landfill 2	SB-LF2-11-141217-10-11	10-11	12/17/2014	0	0.022		0.05	J
Landfill 2	SB-LF2-11-141217-11-12	11-12	12/17/2014	0	0.027		0.08	ND
Landfill 2	SB-LF2-11-141217-12-13	12-13	12/17/2014	0	0.020		0.08	ND
Landfill 2	SB-LF2-12-150623-0-1	0-1	06/23/2015	0	1.034		0.64	J+
Landfill 2	SB-LF2-12-150623-1-2	1-2	06/23/2015	13.7	**3.033**		--	
Landfill 2	SB-LF2-12-150623-2-3	2-3	06/23/2015	**147**	--		--	
Landfill 2	SB-LF2-12-150623-3-4	3-4	06/23/2015	**220**	--		--	
Landfill 2	SB-LF2-12-150623-4-5	4-5	06/23/2015	**691**	--		--	
Landfill 2	SB-LF2-12-150623-5-6	5-6	06/23/2015	**158**	--		--	
Landfill 2	SB-LF2-12-150623-6-7	6-7	06/23/2015	**363**	--		--	
Landfill 2	SB-LF2-12-150623-7-8	7-8	06/23/2015	9	1.116		1.8	J+
Landfill 2	SB-LF2-13-150624-0-1	0-1	06/24/2015	0	--		1.2	J
Landfill 2	SB-LF2-13-150624-1-2	1-2	06/24/2015	0	--		--	
Landfill 2	SB-LF2-13-150624-2-3	2-3	06/24/2015	**88**	--		--	
Landfill 2	SB-LF2-13-150624-3-4	3-4	06/24/2015	**83**	--		--	
Landfill 2	SB-LF2-13-150624-4-5	4-5	06/24/2015	7.6	--		**4.9**	J
Landfill 2	SB-LF2-13-150624-5-6	5-6	06/24/2015	**53**	--		--	
Landfill 2	SB-LF2-13-150624-6-7	6-7	06/24/2015	**52**	--		--	
Landfill 2	SB-LF2-13-150624-7-8	7-8	06/24/2015	**350**	--		--	
Landfill 2	SB-LF2-13-150624-8-9	8-9	06/24/2015	9.1	--		**84**	J
Landfill 2	SB-LF2-13-150624-9-10	9-10	06/24/2015	0	--		**9.1**	J
Landfill 2	BD-1506241608	9-10	06/24/2015	**--**	--		1.5	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-13-150624-10-11	10-11	06/24/2015	0	--		0.24	J
Landfill 2	SB-LF2-13-150624-11-13	11-13	06/24/2015	0	--		0.19	J
Landfill 2	SB-LF2-13-150624-13-15	13-15	06/24/2015	0	--		0.58	J
Landfill 2	SB-LF2-13-150624-15-16	15-16	06/24/2015	0	--		0.73	J
Landfill 2	BD-1506241644	15-16	06/24/2015	**--**	--		0.6	J
Landfill 2	SB-LF2-14-150619-0-1	0-1	06/19/2015	0	0.295	ND	0.22	
Landfill 2	SB-LF2-14-150619-1-2	1-2	06/19/2015	0	0.292	ND	0.07	J
Landfill 2	SB-LF2-14-150619-2-3	2-3	06/19/2015	5.8	**6.926**		--	
Landfill 2	SB-LF2-14-150619-3-4	3-4	06/19/2015	0	1.545		2	
Landfill 2	SB-LF2-14-150619-4-5	4-5	06/19/2015	0	0.296	ND	0.23	
Landfill 2	SB-LF2-14-150619-5-7.5	5-7.5	06/19/2015	0	0.473	J	0.42	J
Landfill 2	SB-LF2-14-150619-7.5-10	7.5-10	06/19/2015	0	0.297	ND	0.02	J
Landfill 2	SB-LF2-14-150619-10-11	10-11	06/19/2015	0	0.306	ND	0.04	J
Landfill 2	SB-LF2-14-150619-11-12	11-12	06/19/2015	0	0.284	ND	0.05	J
Landfill 2	SB-LF2-14-150619-11-12-LR	11-12	06/19/2015	**--**	0.284	ND	--	
Landfill 2	SB-LF2-14-150619-12-13	12-13	06/19/2015	0	0.293	ND	0.03	J+
Landfill 2	SB-LF2-15-150623-0-1	0-1	06/23/2015	0	--		0.29	J+
Landfill 2	SB-LF2-15-150623-1-2	1-2	06/23/2015	0	--		0.12	J+
Landfill 2	BD-1506230817	1-2	06/23/2015	**--**	--		0.1	J+
Landfill 2	SB-LF2-15-150623-2-3	2-3	06/23/2015	0	--		2	J+
Landfill 2	SB-LF2-15-150623-3-4	3-4	06/23/2015	7.3	--		**7.4**	J+
Landfill 2	SB-LF2-15-150623-4-5	4-5	06/23/2015	**23**	--		--	
Landfill 2	SB-LF2-15-150623-5-6	5-6	06/23/2015	**493**	--		--	
Landfill 2	SB-LF2-15-150623-6-7	6-7	06/23/2015	**1,232**	--		--	
Landfill 2	SB-LF2-15-150623-7-8	7-8	06/23/2015	**877**	--		--	
Landfill 2	SB-LF2-15-150623-8-9	8-9	06/23/2015	**533**	--		--	
Landfill 2	SB-LF2-15-150623-9-10	9-10	06/23/2015	0	--		**35**	J+
Landfill 2	SB-LF2-15-150623-10-11	10-11	06/23/2015	**5,130**	--		--	
Landfill 2	SB-LF2-15-150623-11-12	11-12	06/23/2015	**462**	--		--	
Landfill 2	SB-LF2-15-150623-12-13	12-13	06/23/2015	**209**	--		--	
Landfill 2	SB-LF2-15-150623-13-14	13-14	06/23/2015	9	--		**2.7**	J+
Landfill 2	SB-LF2-15-150623-14-15	14-15	06/23/2015	0	--		1.6	J+
Landfill 2	SB-LF2-15-150623-15-16	15-16	06/23/2015	**1,183**	--		--	
Landfill 2	SB-LF2-15B-150626-15-16	15-16	06/26/2015	0	--		0.3	J
Landfill 2	SB-LF2-15-150623-16-17	16-17	06/23/2015	**283**	--		--	
Landfill 2	SB-LF2-15B-150626-16-17	16-17	06/26/2015	0	--		0.41	J
Landfill 2	SB-LF2-15B-150626-17-18	17-18	06/26/2015	0	--		0.08	J
Landfill 2	SB-LF2-15B-150626-18-19	18-19	06/26/2015	0	--		0.01	NDJ
Landfill 2	SB-LF2-15B-150626-19-20	19-20	06/26/2015	0	--		0.02	J
Landfill 2	SB-LF2-16-150617-0-1	0-1	06/17/2015	13	**9.531**		**5.2**	
Landfill 2	SB-LF2-16-150617-1-2	1-2	06/17/2015	**661**	--		--	
Landfill 2	SB-LF2-16-150617-2-3	2-3	06/17/2015	**712**	--		--	
Landfill 2	SB-LF2-16-150617-3-4	3-4	06/17/2015	**68**	--		--	
Landfill 2	SB-LF2-16-150617-4-5	4-5	06/17/2015	**203**	--		--	
Landfill 2	SB-LF2-16-150617-5-6	5-6	06/17/2015	**388**	--		--	
Landfill 2	SB-LF2-16-150617-6-7	6-7	06/17/2015	**692**	--		--	
Landfill 2	SB-LF2-16-150617-7-8	7-8	06/17/2015	**513**	--		--	
Landfill 2	SB-LF2-16-150617-8-9	8-9	06/17/2015	**499**	--		--	
Landfill 2	SB-LF2-16-150617-9-10	9-10	06/17/2015	14.5	**2.600**		1.8	
Landfill 2	SB-LF2-16-150617-10-11	10-11	06/17/2015	**313**	--		--	
Landfill 2	SB-LF2-16-150617-11-12	11-12	06/17/2015	**62**	--		--	
Landfill 2	SB-LF2-16-150617-12-13	12-13	06/17/2015	**16.6**	--		--	
Landfill 2	SB-LF2-16-150617-13-14	13-14	06/17/2015	15	0.284	ND	0.02	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-16-150617-14-15	14-15	06/17/2015	**81**	--		--	
Landfill 2	SB-LF2-16-150617-15-19	15-19	06/17/2015	12.8	**22.417**		**24**	
Landfill 2	SB-LF2-16-150617-20-22.5	20-22.5	06/17/2015	14.5	0.278	ND	0.03	J
Landfill 2	SB-LF2-16-150617-22.5-25	22.5-25	06/17/2015	12.6	0.632		0.68	
Landfill 2	SB-LF2-16-150617-22.5-25-LR	22.5-25	06/17/2015	**--**	0.800		--	
Landfill 2	SB-LF2-17-150625-0-1	0-1	06/25/2015	7	**3.576**		--	
Landfill 2	SB-LF2-17-150625-1-2	1-2	06/25/2015	**19**	--		--	
Landfill 2	SB-LF2-17-150625-2-3	2-3	06/25/2015	**85**	--		--	
Landfill 2	SB-LF2-17-150625-3-4	3-4	06/25/2015	**24**	--		--	
Landfill 2	SB-LF2-17-150625-4-5	4-5	06/25/2015	**24**	--		--	
Landfill 2	SB-LF2-17-150625-5-6	5-6	06/25/2015	**288**	--		--	
Landfill 2	SB-LF2-17-150625-6-7	6-7	06/25/2015	**155**	--		--	
Landfill 2	SB-LF2-17-150625-7-8	7-8	06/25/2015	**105**	--		--	
Landfill 2	SB-LF2-17-150625-8-9	8-9	06/25/2015	**423**	--		--	
Landfill 2	SB-LF2-17-150625-9-10	9-10	06/25/2015	0	1.743		1.5	J
Landfill 2	SB-LF2-17-150625-10-11	10-11	06/25/2015	**247**	--		--	
Landfill 2	SB-LF2-17-150625-11-12	11-12	06/25/2015	**29**	--		--	
Landfill 2	SB-LF2-17-150625-12-13	12-13	06/25/2015	7.9	1.926		2	J
Landfill 2	SB-LF2-17-150625-13-14	13-14	06/25/2015	0	0.284	ND	0.08	J+
Landfill 2	SB-LF2-17-150625-14-15	14-15	06/25/2015	0	0.280	ND	0.3	J
Landfill 2	SB-LF2-17-150625-15-16	15-16	06/25/2015	14.1	**9.637**		--	
Landfill 2	SB-LF2-17-150625-16-17	16-17	06/25/2015	8	0.407	J	0.22	J
Landfill 2	SB-LF2-17-150625-17-18	17-18	06/25/2015	0	0.278	ND	0.02	NDJ
Landfill 2	SB-LF2-17-150625-18-19	18-19	06/25/2015	0	0.277	ND	0.02	NDJ
Landfill 2	SB-LF2-17-150625-19-20	19-20	06/25/2015	0	0.276	ND	0.05	J
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	7.5	1.900		0.82	J+
Landfill 2	SB-LF2-17-150625-22-24	22-24	06/25/2015	0	0.276	ND	0.02	J+
Landfill 2	SB-LF2-17-150625-24-25	24-25	06/25/2015	0	0.277	ND	0.02	ND
Landfill 2	SB-LF2-18-150622-0-1	0-1	06/22/2015	0	--		0.26	J
Landfill 2	SB-LF2-18-150622-1-2	1-2	06/22/2015	0	--		0.17	J
Landfill 2	SB-LF2-18-150622-2-3	2-3	06/22/2015	15	--		**4.8**	J
Landfill 2	SB-LF2-18-150622-3-4	3-4	06/22/2015	**388**	--		--	
Landfill 2	SB-LF2-18-150622-4-5	4-5	06/22/2015	9	--		**16**	J
Landfill 2	SB-LF2-18-150622-5-6	5-6	06/22/2015	7	--		1.8	J
Landfill 2	SB-LF2-18-150622-6-7	6-7	06/22/2015	0	--		0.13	J
Landfill 2	SB-LF2-18-150622-7-8	7-8	06/22/2015	0	--		0.04	J
Landfill 2	SB-LF2-18-150622-8-9	8-9	06/22/2015	0	--		0.03	J
Landfill 2	SB-LF2-18-150622-9-10	9-10	06/22/2015	0	--		0.12	J-
Landfill 2	SB-LF2-18-150622-10-12.5	10-12.5	06/22/2015	0	--		0.37	J
Landfill 2	SB-LF2-18-150622-12.5-15	12.5-15	06/22/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-19-150623-0-1	0-1	06/23/2015	0	1.609		1.8	J
Landfill 2	SB-LF2-19-150623-1-2	1-2	06/23/2015	0	**44.673**		--	
Landfill 2	SB-LF2-19-150623-2-3	2-3	06/23/2015	**123**	--		--	
Landfill 2	SB-LF2-19-150623-3-4	3-4	06/23/2015	0	**6.476**		--	
Landfill 2	SB-LF2-19-150623-4-5	4-5	06/23/2015	0	0.296	ND	0.1	J
Landfill 2	BD-1506231128	4-5	06/23/2015	**--**	--		0.13	
Landfill 2	SB-LF2-19-150623-5-6	5-6	06/23/2015	12.4	**11.254**		--	
Landfill 2	SB-LF2-19-150623-6-7	6-7	06/23/2015	0	0.765		0.72	J
Landfill 2	SB-LF2-19-150623-7-8	7-8	06/23/2015	0	0.877		1.1	J
Landfill 2	SB-LF2-20-150626-0-1	0-1	06/26/2015	0	--		0.14	J
Landfill 2	SB-LF2-20-150626-1-2	1-2	06/26/2015	0	--		1.2	J
Landfill 2	SB-LF2-20-150626-2-3	2-3	06/26/2015	0	--		1.9	J
Landfill 2	SB-LF2-20-150626-3-4	3-4	06/26/2015	7.6	--		2	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-20-150626-4-5	4-5	06/26/2015	0	--		**3.2**	J
Landfill 2	SB-LF2-20-150626-5-6	5-6	06/26/2015	0	--		1.2	J
Landfill 2	SB-LF2-20-150626-6-7	6-7	06/26/2015	0	--		0.51	J
Landfill 2	SB-LF2-20-150626-7-8	7-8	06/26/2015	0	--		0.17	J
Landfill 2	SB-LF2-20-150626-8-9	8-9	06/26/2015	0	--		0.02	J
Landfill 2	BD-1506260844	8-9	06/26/2015	**--**	--		0.02	NDJ
Landfill 2	SB-LF2-20-150626-9-10	9-10	06/26/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-20-150626-10-11	10-11	06/26/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-20-150626-11-12	11-12	06/26/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-20-150626-12-13	12-13	06/26/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-21-150618-0-1	0-1	06/18/2015	8	1.627		**2.4**	
Landfill 2	SB-LF2-21-150618-1-2	1-2	06/18/2015	**71**	--		--	
Landfill 2	SB-LF2-21-150618-2-3	2-3	06/18/2015	**84**	--		--	
Landfill 2	SB-LF2-21-150618-3-4	3-4	06/18/2015	**717**	--		--	
Landfill 2	SB-LF2-21-150618-4-5	4-5	06/18/2015	0	**10.267**		--	
Landfill 2	SB-LF2-21-150618-5-7.5	5-7.5	06/18/2015	0	0.288	ND	0.04	J
Landfill 2	SB-LF2-21-150618-7.5-10	7.5-10	06/18/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-21-150618-10-11	10-11	06/18/2015	0	0.309	ND	0.02	ND
Landfill 2	SB-LF2-21-150618-11-12	11-12	06/18/2015	0	0.305	ND	0.02	ND
Landfill 2	SB-LF2-22-150625-0-1	0-1	06/25/2015	0	--		0.4	J
Landfill 2	SB-LF2-22-150625-1-2	1-2	06/25/2015	0	--		0.22	J+
Landfill 2	SB-LF2-22-150625-2-3	2-3	06/25/2015	**98**	--		--	
Landfill 2	SB-LF2-22-150625-3-4	3-4	06/25/2015	5.9	--		**76**	J
Landfill 2	SB-LF2-22-150625-4-5	4-5	06/25/2015	**1,284**	--		--	
Landfill 2	SB-LF2-22-150625-5-7	5-7	06/25/2015	**53**	--		--	
Landfill 2	SB-LF2-22-150625-7-9	7-9	06/25/2015	0	175.721	E	--	
Landfill 2	SB-LF2-22-150625-9-10	9-10	06/25/2015	0	--		0.41	J
Landfill 2	SB-LF2-22-150625-10-11	10-11	06/25/2015	7.4	--		0.6	J
Landfill 2	BD-1506251604	10-11	06/25/2015	**--**	--		0.7	J
Landfill 2	SB-LF2-22-150625-11-12	11-12	06/25/2015	0	--		0.2	J
Landfill 2	SB-LF2-22-150625-12-13	12-13	06/25/2015	0	--		0.05	J
Landfill 2	SB-LF2-22-150625-13-14	13-14	06/25/2015	0	--		0.02	NDJ
Landfill 2	BD-1506251610	13-14	06/25/2015	**--**	--		0.02	NDJ
Landfill 2	SB-LF2-22-150625-14-15	14-15	06/25/2015	0	0.283	ND	0.04	J
Landfill 2	SB-LF2-22-150625-14-15-LR	14-15	06/25/2015	**--**	0.283	ND	--	
Landfill 2	SB-LF2-22-150625-15-17	15-17	06/25/2015	0	0.282	ND	0.21	J
Landfill 2	BD-1506251628	15-17	06/25/2015	**--**	--		0.21	J
Landfill 2	SB-LF2-22-150625-17-19	17-19	06/25/2015	0	0.279	ND	0.04	J
Landfill 2	SB-LF2-22-150625-19-20	19-20	06/25/2015	0	0.280	ND	0.07	J
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	0	0.279	ND	0.12	J
Landfill 2	SB-LF2-23-150624-0-1	0-1	06/24/2015	0	--		0.49	J+
Landfill 2	SB-LF2-23-150624-1-2	1-2	06/24/2015	6.9	--		--	
Landfill 2	SB-LF2-23-150624-2-3	2-3	06/24/2015	**22**	--		--	
Landfill 2	SB-LF2-23-150624-3-4	3-4	06/24/2015	9.4	--		**21**	J+
Landfill 2	SB-LF2-23-150624-4-5	4-5	06/24/2015	**40**	--		--	
Landfill 2	SB-LF2-23-150624-5-7	5-7	06/24/2015	0	--		**2.9**	J+
Landfill 2	SB-LF2-23-150624-7-9	7-9	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-23-150624-9-10	9-10	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-23-150624-10-11	10-11	06/24/2015	9	--		**4**	J+
Landfill 2	SB-LF2-23-150624-11-12	11-12	06/24/2015	14	**7.877**		--	
Landfill 2	SB-LF2-23-150624-12-13	12-13	06/24/2015	0	0.279	ND	0.06	J+
Landfill 2	SB-LF2-23-150624-13-14	13-14	06/24/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-23-150624-14-15	14-15	06/24/2015	0	0.280	ND	0.02	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-23-150624-15-16	15-16	06/24/2015	0	0.926		0.48	J+
Landfill 2	SB-LF2-24-150616-0-1	0-1	06/16/2015	0	0.443	J	0.42	
Landfill 2	SB-LF2-24-150616-1-2	1-2	06/16/2015	14	**20.078**		**9**	
Landfill 2	SB-LF2-24-150616-2-3	2-3	06/16/2015	**70**	--		--	
Landfill 2	SB-LF2-24-150616-3-4	3-4	06/16/2015	**572**	--		--	
Landfill 2	SB-LF2-24-150616-4-5	4-5	06/16/2015	**586**	--		--	
Landfill 2	SB-LF2-24-150616-5-6	5-6	06/16/2015	**15.2**	**21.954**		**12**	
Landfill 2	SB-LF2-24-150616-6-7	6-7	06/16/2015	**16**	--		1.4	
Landfill 2	SB-LF2-24-150616-7-8	7-8	06/16/2015	0	1.309		1.4	
Landfill 2	SB-LF2-24-150616-8-9	8-9	06/16/2015	0	0.334	ND	0.34	
Landfill 2	SB-LF2-24-150616-9-10	9-10	06/16/2015	0	1.106	J	0.52	
Landfill 2	SB-LF2-24-150616-10-11	10-11	06/17/2015	0	**16.548**		**13**	
Landfill 2	SB-LF2-24-150616-11-12	11-12	06/17/2015	0	1.201	J	1.1	
Landfill 2	SB-LF2-24-150616-12-13	12-13	06/17/2015	0	0.368	ND	0.13	
Landfill 2	SB-LF2-24-150616-13-14	13-14	06/17/2015	0	0.305	ND	0.04	J
Landfill 2	BD-1506170851	13-14	06/16/2015	**--**	--		0.03	J
Landfill 2	SB-LF2-24-150616-14-15	14-15	06/17/2015	0	0.274	ND	0.05	J
Landfill 2	SB-LF2-24-150616-15-16	15-16	06/17/2015	0	1.395		**2.3**	
Landfill 2	SB-LF2-24-150616-16-17	16-17	06/17/2015	0	0.293	ND	0.02	J
Landfill 2	SB-LF2-24-150616-17-18	17-18	06/17/2015	0	0.300	ND	0.02	ND
Landfill 2	SB-LF2-25-150622-0-1	0-1	06/22/2015	0	0.325	ND	0.27	
Landfill 2	SB-LF2-25-150622-0-1-LR	0-1	06/22/2015	**--**	0.325	ND	--	
Landfill 2	SB-LF2-25-150622-1-2	1-2	06/22/2015	0	0.283	ND	0.11	
Landfill 2	SB-LF2-25-150622-2-3	2-3	06/22/2015	0	1.013		0.79	
Landfill 2	SB-LF2-25-150622-3-4	3-4	06/22/2015	**80**	--		--	
Landfill 2	SB-LF2-25-150622-4-5	4-5	06/22/2015	**17**	--		--	
Landfill 2	SB-LF2-25-150622-5-6	5-6	06/22/2015	**19**	--		--	
Landfill 2	SB-LF2-25-150622-6-7	6-7	06/22/2015	**30**	--		--	
Landfill 2	SB-LF2-25-150622-7-8	7-8	06/22/2015	0	**3.450**		--	
Landfill 2	SB-LF2-25-150622-8-9	8-9	06/22/2015	0	**10.421**		--	
Landfill 2	SB-LF2-25-150622-9-10	9-10	06/22/2015	0	0.351	ND	0.13	J
Landfill 2	SB-LF2-25-150622-10-11	10-11	06/22/2015	**39**	--		--	
Landfill 2	SB-LF2-25-150622-11-12	11-12	06/22/2015	**68**	--		--	
Landfill 2	SB-LF2-25-150622-12-13	12-13	06/22/2015	**17**	--		--	
Landfill 2	SB-LF2-25-150622-13-14	13-14	06/22/2015	0	0.287	ND	0.14	J
Landfill 2	SB-LF2-25-150622-14-15	14-15	06/22/2015	0	0.286	ND	0.04	J
Landfill 2	SB-LF2-25-150622-15-16	15-16	06/22/2015	0	1.169		1.4	J
Landfill 2	SB-LF2-25-150622-16-17	16-17	06/22/2015	6.1	0.281	ND	1.2	J
Landfill 2	SB-LF2-26-150618-0-1	0-1	06/18/2015	0	0.300	ND	0.19	
Landfill 2	SB-LF2-26-150618-1-2	1-2	06/18/2015	6.9	**7.423**		--	
Landfill 2	SB-LF2-26-150618-1-2-LR	1-2	06/18/2015	**--**	**4.224**		--	
Landfill 2	SB-LF2-26-150618-2-3	2-3	06/18/2015	0	2.086		1.9	
Landfill 2	SB-LF2-26-150618-3-4	3-4	06/18/2015	**245**	--		--	
Landfill 2	SB-LF2-26-150618-4-5	4-5	06/18/2015	**27**	--		--	
Landfill 2	SB-LF2-26-150618-5-6	5-6	06/18/2015	**17**	--		--	
Landfill 2	SB-LF2-26-150618-6-8	6-8	06/18/2015	0	0.661	J	1	
Landfill 2	SB-LF2-26-150618-8-9	8-9	06/18/2015	0	0.282	ND	0.03	J
Landfill 2	SB-LF2-26-150618-9-10	9-10	06/18/2015	0	0.281	ND	0.03	J
Landfill 2	SB-LF2-26-150618-10-11	10-11	06/18/2015	0	1.789		**2.7**	
Landfill 2	SB-LF2-26-150618-11-12	11-12	06/18/2015	6	0.283	ND	0.17	
Landfill 2	SB-LF2-26-150618-12-13	12-13	06/18/2015	0	0.283	ND	0.02	J
Landfill 2	SB-LF2-26-150618-13-14	13-14	06/18/2015	0	0.282	ND	0.02	J
Landfill 2	SB-LF2-26-150618-14-15	14-15	06/18/2015	0	0.284	ND	0.06	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	BD-1506180948	14-15	06/18/2015	--	--		0.02	J
Landfill 2	SB-LF2-26-150618-15-16	15-16	06/18/2015	0	0.286	ND	0.12	
Landfill 2	SB-LF2-26-150618-16-17	16-17	06/18/2015	0	0.279	ND	0.02	J
Landfill 2	SB-LF2-26-150618-17-18	17-18	06/18/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-26-150618-18-19	18-19	06/18/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-26-150618-19-20	19-20	06/18/2015	0	0.281	ND	0.02	J
Landfill 2	SB-LF2-26-150618-20-21	20-21	06/18/2015	0	**2.227**		--	
Landfill 2	SB-LF2-26-150618-21-22	21-22	06/18/2015	6.1	0.282	ND	0.1	J
Landfill 2	SB-LF2-26-150618-22-23	22-23	06/18/2015	0	0.410	J	0.15	
Landfill 2	SB-LF2-26-150618-23-24	23-24	06/18/2015	0	0.306	J	0.1	
Landfill 2	SB-LF2-27-150623-0-1	0-1	06/23/2015	0	0.312	ND	0.18	J
Landfill 2	SB-LF2-27-150623-1-2	1-2	06/23/2015	0	**3.175**		--	
Landfill 2	SB-LF2-27-150623-2-3	2-3	06/23/2015	0	0.469	J	0.42	J
Landfill 2	SB-LF2-27-150623-3-4	3-4	06/23/2015	0	0.293	ND	0.23	J
Landfill 2	SB-LF2-27-150623-4-5	4-5	06/23/2015	0	1.051		1.2	J
Landfill 2	SB-LF2-27-150623-5-6	5-6	06/23/2015	0	0.606	ND	0.38	J
Landfill 2	SB-LF2-27-150623-6-7	6-7	06/23/2015	0	0.300	ND	0.03	J
Landfill 2	BD-1506231354	6-7	06/23/2015	--	--		0.02	J
Landfill 2	SB-LF2-27-150623-7-8	7-8	06/23/2015	0	0.306	ND	0.02	ND
Landfill 2	SB-LF2-27-150623-8-9	8-9	06/23/2015	0	0.298	ND	0.03	J
Landfill 2	SB-LF2-28-150618-0-1	0-1	06/18/2015	0	0.909		0.46	
Landfill 2	SB-LF2-28-150618-1-2	1-2	06/18/2015	0	0.561	J	1.3	
Landfill 2	SB-LF2-28-150618-2-3	2-3	06/18/2015	**737**	--		--	
Landfill 2	SB-LF2-28-150618-3-4	3-4	06/18/2015	**135**	--		--	
Landfill 2	SB-LF2-28-150618-4-5	4-5	06/18/2015	**99**	--		--	
Landfill 2	SB-LF2-28-150618-5-6	5-6	06/18/2015	**59**	--		--	
Landfill 2	SB-LF2-28-150618-6-7	6-7	06/18/2015	**63**	--		--	
Landfill 2	SB-LF2-28-150618-7-10	7-10	06/18/2015	0	0.431	J	0.36	
Landfill 2	SB-LF2-28B-150618-10-11	10-11	06/18/2015	**49**	--		--	
Landfill 2	SB-LF2-28B-150618-11-12	11-12	06/18/2015	**79**	--		--	
Landfill 2	SB-LF2-28B-150618-12-13	12-13	06/18/2015	0	1.023		0.94	
Landfill 2	SB-LF2-28B-150618-13-14	13-14	06/18/2015	0	0.282	ND	0.05	J
Landfill 2	SB-LF2-28B-150618-14-15	14-15	06/18/2015	0	0.281	ND	0.02	J
Landfill 2	BD-1506181428	14-15	06/18/2015	--	--		0.03	J
Landfill 2	SB-LF2-28B-150618-15-16	15-16	06/18/2015	0	0.636		**2.3**	
Landfill 2	SB-LF2-28B-150618-16-17	16-17	06/18/2015	0	0.284	ND	0.11	
Landfill 2	SB-LF2-28B-150618-16-17-LR	16-17	06/18/2015	--	0.284	ND	--	
Landfill 2	SB-LF2-29-150622-0-1	0-1	06/22/2015	0	1.347		**2.3**	J
Landfill 2	SB-LF2-29-150622-1-2	1-2	06/22/2015	12	**5.130**		--	
Landfill 2	SB-LF2-29-150622-2-3	2-3	06/22/2015	10	**14.924**		--	
Landfill 2	SB-LF2-29-150622-3-4	3-4	06/22/2015	0	0.288	ND	0.07	J
Landfill 2	SB-LF2-29-150622-4-5	4-5	06/22/2015	0	0.312	ND	0.11	J
Landfill 2	SB-LF2-29-150622-5-6	5-6	06/22/2015	0	0.914		0.59	J
Landfill 2	SB-LF2-29-150622-6-7	6-7	06/22/2015	0	0.281	ND	0.04	J
Landfill 2	SB-LF2-29-150622-7-8	7-8	06/22/2015	0	0.273	ND	0.02	J
Landfill 2	SB-LF2-29-150622-8-9-LR	8-9	06/22/2015	--	0.279	ND	--	
Landfill 2	SB-LF2-29-150622-8-9	8-9	06/22/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-29-150622-9-10	9-10	06/22/2015	0	0.279	ND	0.03	J
Landfill 2	SB-LF2-29-150622-10-11	10-11	06/22/2015	0	0.344	J	0.38	J
Landfill 2	SB-LF2-29-150622-11-12	11-12	06/22/2015	0	0.283	ND	0.02	J
Landfill 2	SB-LF2-30-150626-0-1	0-1	06/26/2015	0	--		0.88	J
Landfill 2	SB-LF2-30-150626-1-2	1-2	06/26/2015	13	--		**10**	J
Landfill 2	SB-LF2-30-150626-2-3	2-3	06/26/2015	**79**	--		--	

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-30-150626-3-4	3-4	06/26/2015	**199**	--		--	
Landfill 2	SB-LF2-30-150626-4-5	4-5	06/26/2015	**50**	--		--	
Landfill 2	SB-LF2-30-150626-5-6	5-6	06/26/2015	**83**	--		--	
Landfill 2	SB-LF2-30-150626-6-7	6-7	06/26/2015	13	--		**5.8**	J
Landfill 2	SB-LF2-30-150626-7-8	7-8	06/26/2015	**48**	--		--	
Landfill 2	SB-LF2-30-150626-8-9	8-9	06/26/2015	12.1	--		**14**	J
Landfill 2	SB-LF2-30-150626-9-10	9-10	06/26/2015	0	--		0.6	J
Landfill 2	BD-1506260958	9-10	06/26/2015	**--**	--		0.59	J
Landfill 2	SB-LF2-30-150626-10-11	10-11	06/26/2015	11.6	--		**14**	J
Landfill 2	SB-LF2-30-150626-11-12	11-12	06/26/2015	6	--		1	J
Landfill 2	SB-LF2-30-150626-12-13	12-13	06/26/2015	0	--		0.05	J
Landfill 2	SB-LF2-30-150626-13-14	13-14	06/26/2015	0	--		0.04	J
Landfill 2	SB-LF2-30-150626-14-15	14-15	06/26/2015	0	--		0.02	NDJ
Landfill 2	SB-LF2-31-150622-0-1	0-1	06/22/2015	0	0.616	J	0.38	J
Landfill 2	SB-LF2-31-150622-1-2	1-2	06/22/2015	0	0.307	ND	0.66	
Landfill 2	SB-LF2-31-150622-2-3	2-3	06/22/2015	**23**	--		--	
Landfill 2	SB-LF2-31-150622-3-4	3-4	06/22/2015	**61**	**27.261**		--	
Landfill 2	SB-LF2-31-150622-4-5	4-5	06/22/2015	0	0.632		0.5	
Landfill 2	SB-LF2-31-150622-5-6	5-6	06/22/2015	0	0.914	J	0.8	
Landfill 2	SB-LF2-31-150622-6-7	6-7	06/22/2015	0	0.317	ND	0.11	
Landfill 2	SB-LF2-31-150622-7-8	7-8	06/22/2015	0	0.299	ND	0.03	J
Landfill 2	SB-LF2-31-150622-8-9	8-9	06/22/2015	0	0.301	ND	0.02	J
Landfill 2	SB-LF2-31-150622-9-10	9-10	06/22/2015	0	0.303	ND	0.04	J
Landfill 2	SB-LF2-32-150619-0-1	0-1	06/19/2015	0	2.154		1.3	J+
Landfill 2	SB-LF2-32-150619-1-2	1-2	06/19/2015	**144**	--		--	
Landfill 2	SB-LF2-32-150619-2-3	2-3	06/19/2015	**244**	--		--	
Landfill 2	SB-LF2-32-150619-3-4	3-4	06/19/2015	**37**	--		--	
Landfill 2	SB-LF2-32-150619-4-5	4-5	06/19/2015	**55**	--		--	
Landfill 2	SB-LF2-32-150619-5-6	5-6	06/19/2015	**43**	--		--	
Landfill 2	SB-LF2-32-150619-6-7	6-7	06/19/2015	**86**	--		--	
Landfill 2	SB-LF2-32-150619-7-8	7-8	06/19/2015	**46**	--		--	
Landfill 2	SB-LF2-32-150619-8-9	8-9	06/19/2015	**35**	--		--	
Landfill 2	SB-LF2-32-150619-9-10	9-10	06/19/2015	0	1.264		0.79	J+
Landfill 2	SB-LF2-32-150619-10-11	10-11	06/19/2015	0	1.958		**2.2**	J+
Landfill 2	SB-LF2-32-150619-10-11-LR	10-11	06/19/2015	**--**	**7.235**		--	
Landfill 2	SB-LF2-32-150619-11-12	11-12	06/19/2015	0	0.315	ND	0.2	J+
Landfill 2	SB-LF2-32-150619-12-13	12-13	06/19/2015	0	0.294	ND	0.02	J+
Landfill 2	SB-LF2-32-150619-13-14	13-14	06/19/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-32-150619-14-15	14-15	06/19/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-32-150619-15-16	15-16	06/19/2015	0	**4.386**		--	
Landfill 2	SB-LF2-32-150619-15-16-LR	15-16	06/19/2015	**--**	**4.279**		--	
Landfill 2	SB-LF2-32-150619-16-17	16-17	06/19/2015	0	0.283	ND	0.04	J+
Landfill 2	SB-LF2-33-150625-0-1	0-1	06/25/2015	0	0.285	ND	0.06	J
Landfill 2	SB-LF2-33-150625-1-2	1-2	06/25/2015	**17**	--		--	
Landfill 2	SB-LF2-33-150625-2-3	2-3	06/25/2015	7	**4.460**		--	
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	0	0.275	ND	0.02	J+
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	0	0.282	ND	0.02	J+
Landfill 2	SB-LF2-33-150625-5-7	5-7	06/25/2015	0	0.286	ND	0.07	J+
Landfill 2	SB-LF2-33-150625-7-9	7-9	06/25/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-33-150625-9-10	9-10	06/25/2015	0	0.273	ND	0.01	ND
Landfill 2	SB-LF2-33-150625-10-11	10-11	06/25/2015	0	0.279	ND	0.03	J+
Landfill 2	SB-LF2-33-150625-11-12	11-12	06/25/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-33-150625-12-13	12-13	06/25/2015	0	0.273	ND	0.01	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-34-150622-0-1	0-1	06/22/2015	0	**2.209**		**2.3**	
Landfill 2	SB-LF2-34-150622-1-2	1-2	06/22/2015	**260**	--		--	
Landfill 2	SB-LF2-34-150622-2-3	2-3	06/22/2015	**210**	--		--	
Landfill 2	SB-LF2-34-150622-3-4	3-4	06/22/2015	**68**	--		--	
Landfill 2	SB-LF2-34-150622-4-5	4-5	06/22/2015	0	**2.903**		--	
Landfill 2	SB-LF2-34-150622-5-6	5-6	06/22/2015	8.3	**10.351**		--	
Landfill 2	SB-LF2-34-150622-6-7	6-7	06/22/2015	0	0.343	ND	0.19	
Landfill 2	SB-LF2-34-150622-7-8	7-8	06/22/2015	0	0.297	ND	0.02	J
Landfill 2	BD-1506220834	7-8	06/22/2015	**--**	--		0.02	J
Landfill 2	SB-LF2-34-150622-8-9	8-9	06/22/2015	0	0.301	ND	0.02	J
Landfill 2	SB-LF2-34-150622-9-10	9-10	06/22/2015	0	0.304	ND	0.02	ND
Landfill 2	SB-LF2-34-150622-10-12	10-12	06/22/2015	8.5	0.318	ND	0.09	
Landfill 2	SB-LF2-35-150617-0-1	0-1	06/17/2015	6.3	1.302		1.9	
Landfill 2	SB-LF2-35-150617-1-2	1-2	06/17/2015	6.5	**4.425**		**8.8**	
Landfill 2	SB-LF2-35-150617-2-3	2-3	06/17/2015	**212**	--		--	
Landfill 2	SB-LF2-35-150617-3-4	3-4	06/17/2015	**177**	--		--	
Landfill 2	SB-LF2-35-150617-4-5	4-5	06/17/2015	**399**	--		--	
Landfill 2	SB-LF2-35-150617-5-6	5-6	06/17/2015	**115**	--		--	
Landfill 2	SB-LF2-35-150617-6-7	6-7	06/17/2015	0	**7.768**		**9.2**	
Landfill 2	SB-LF2-35-150617-7-8	7-8	06/17/2015	0	0.567	J	1.1	
Landfill 2	SB-LF2-35-150617-8-9	8-9	06/17/2015	**87**	--		--	
Landfill 2	SB-LF2-35-150617-9-10	9-10	06/17/2015	0	1.511		1	J
Landfill 2	BD-1506171453	9-10	06/17/2015	**--**	--		1.9	
Landfill 2	SB-LF2-35-150617-10-11	10-11	06/17/2015	6.1	0.906		2.1	
Landfill 2	SB-LF2-35-150617-11-12	11-12	06/17/2015	6.2	0.302	ND	0.03	J
Landfill 2	SB-LF2-35-150617-12-13	12-13	06/17/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-35-150617-13-14	13-14	06/17/2015	0	0.277	ND	0.02	ND
Landfill 2	SB-LF2-35-150617-14-15	14-15	06/17/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-35-150617-15-16	15-16	06/17/2015	0	**3.554**		**3.8**	
Landfill 2	SB-LF2-35-150617-16-17	16-17	06/17/2015	0	2.120		2	
Landfill 2	SB-LF2-36-150625-0-1	0-1	06/25/2015	0	1.717		1.1	J+
Landfill 2	BD-1506251000	0-1	06/25/2015	**--**	--		0.86	J+
Landfill 2	SB-LF2-36-150625-1-2	1-2	06/25/2015	0	0.686		0.33	J+
Landfill 2	SB-LF2-36-150625-2-3	2-3	06/25/2015	**188**	--		--	
Landfill 2	SB-LF2-36-150625-3-4	3-4	06/25/2015	**177**	--		--	
Landfill 2	SB-LF2-36-150625-4-5	4-5	06/25/2015	**233**	--		--	
Landfill 2	SB-LF2-36-150625-5-6	5-6	06/25/2015	**448**	--		--	
Landfill 2	SB-LF2-36-150625-6-7	6-7	06/25/2015	**322**	--		--	
Landfill 2	SB-LF2-36-150625-7-8	7-8	06/25/2015	**441**	--		--	
Landfill 2	SB-LF2-36-150625-8-9	8-9	06/25/2015	**71**	--		--	
Landfill 2	SB-LF2-36-150625-9-10	9-10	06/25/2015	7.2	1.955		1.3	J+
Landfill 2	SB-LF2-36-150625-10-12	10-12	06/25/2015	**30.9**	**43.932**		--	
Landfill 2	SB-LF2-36-150625-12-14	12-14	06/25/2015	0	0.288	ND	0.21	J+
Landfill 2	SB-LF2-36-150625-14-15	14-15	06/25/2015	0	0.287	ND	0.03	J+
Landfill 2	SB-LF2-36-150625-15-17	15-17	06/25/2015	0	0.297	ND	0.17	J+
Landfill 2	SB-LF2-36-150625-17-19	17-19	06/25/2015	0	0.297	ND	0.02	J+
Landfill 2	SB-LF2-36-150625-19-20	19-20	06/25/2015	0	0.313	ND	0.02	ND
Landfill 2	SB-LF2-37-150619-0-1	0-1	06/19/2015	0	0.296	ND	0.44	
Landfill 2	SB-LF2-37-150619-1-2	1-2	06/19/2015	0	0.375	J	0.11	J
Landfill 2	SB-LF2-37-150619-2-3	2-3	06/19/2015	0	0.293	ND	0.23	J
Landfill 2	SB-LF2-37-150619-3-4	3-4	06/19/2015	**22**	--		--	
Landfill 2	SB-LF2-37-150619-4-5	4-5	06/19/2015	**277**	--		--	
Landfill 2	SB-LF2-37-150619-5-6	5-6	06/19/2015	**37**	--		--	

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-37-150619-6-7	6-7	06/19/2015	0	1.123		1.9	J
Landfill 2	SB-LF2-37-150619-7-8	7-8	06/19/2015	0	0.304	ND	0.1	J
Landfill 2	SB-LF2-37-150619-8-9	8-9	06/19/2015	0	0.302	ND	0.02	ND
Landfill 2	SB-LF2-38-150619-0-1	0-1	06/19/2015	0	1.526		1.8	J
Landfill 2	SB-LF2-38-150619-1-2	1-2	06/19/2015	0	**34.326**		--	
Landfill 2	SB-LF2-38-150619-2-3	2-3	06/19/2015	**431**	--		--	
Landfill 2	SB-LF2-38-150619-3-4	3-4	06/19/2015	**121**	--		--	
Landfill 2	SB-LF2-38-150619-4-5	4-5	06/19/2015	**93**	--		--	
Landfill 2	SB-LF2-38-150619-5-6	5-6	06/19/2015	0	**4.830**		--	
Landfill 2	SB-LF2-38-150619-6-7	6-7	06/19/2015	0	0.968		0.95	J
Landfill 2	SB-LF2-38-150619-7-8	7-8	06/19/2015	0	0.320	ND	0.2	J
Landfill 2	SB-LF2-38-150619-8-9	8-9	06/19/2015	0	0.295	ND	0.03	J
Landfill 2	SB-LF2-38-150619-9-10	9-10	06/19/2015	0	0.274	ND	0.02	J
Landfill 2	SB-LF2-38-150619-10-11	10-11	06/19/2015	0	0.429	J	0.5	J
Landfill 2	SB-LF2-38-150619-10-11-LR	10-11	06/19/2015	**--**	0.642		--	
Landfill 2	SB-LF2-38-150619-11-12	11-12	06/19/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-38-150619-12-13	12-13	06/19/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-39-150624-0-1	0-1	06/24/2015	0	--		0.44	
Landfill 2	SB-LF2-39-150624-1-2	1-2	06/24/2015	0	--		0.03	J
Landfill 2	SB-LF2-39-150624-2-3	2-3	06/24/2015	7.2	--		**3.1**	
Landfill 2	SB-LF2-39-150624-3-4	3-4	06/24/2015	0	--		0.17	
Landfill 2	SB-LF2-39-150624-4-5	4-5	06/24/2015	0	--		0.05	J
Landfill 2	SB-LF2-39-150624-5-6	5-6	06/24/2015	0	--		0.02	J
Landfill 2	SB-LF2-39-150624-6-7	6-7	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-7-8	7-8	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-8-9	8-9	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-9-10	9-10	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-10-11	10-11	06/24/2015	0	--		0.08	
Landfill 2	SB-LF2-39-150624-11-12	11-12	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-12-13	12-13	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-13-14	13-14	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-14-15	14-15	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-39-150624-15-16	15-16	06/24/2015	0	--		0.02	ND
Landfill 2	BD-1506241213	15-16	06/24/2015	**--**	--		0.03	J
Landfill 2	SB-LF2-39-150624-16-17	16-17	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-40-150624-0-1	0-1	06/24/2015	0	0.346	J	0.22	J+
Landfill 2	SB-LF2-40-150624-1-2	1-2	06/24/2015	0	0.443	J	0.56	J+
Landfill 2	BD-1506240827	1-2	06/24/2015	**--**	--		0.17	J+
Landfill 2	SB-LF2-40-150624-2-3	2-3	06/24/2015	0	0.615		0.46	J+
Landfill 2	SB-LF2-40-150624-3-4	3-4	06/24/2015	**30.8**	--		--	
Landfill 2	SB-LF2-40-150624-4-5	4-5	06/24/2015	0	0.503	J	0.38	J+
Landfill 2	SB-LF2-40-150624-5-6	5-6	06/24/2015	0	0.305	ND	0.18	J+
Landfill 2	SB-LF2-40-150624-6-7	6-7	06/24/2015	0	0.301	ND	0.05	J+
Landfill 2	SB-LF2-40-150624-7-8	7-8	06/24/2015	0	0.292	ND	0.04	J+
Landfill 2	SB-LF2-41-150624-0-1	0-1	06/24/2015	0	--		0.92	
Landfill 2	SB-LF2-41-150624-1-2	1-2	06/24/2015	0	--		2.1	
Landfill 2	SB-LF2-41-150624-2-3	2-3	06/24/2015	0	--		0.15	
Landfill 2	BD-1506240949	2-3	06/24/2015	**--**	--		0.15	J
Landfill 2	SB-LF2-41-150624-3-4	3-4	06/24/2015	0	--		0.014	ND
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	0	--		0.1	
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-41-150624-6-10	6-10	06/24/2015	0	--		0.02	ND
Landfill 2	SB-LF2-41-150624-10-11	10-11	06/24/2015	0	--		0.04	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-42-150710-0-1	0-1	07/10/2015	7.3	1.153	J+	1.4	
Landfill 2	SB-LF2-42-150710-1-2	1-2	07/10/2015	0	**7.328**		--	
Landfill 2	SB-LF2-42-150710-2-4	2-4	07/10/2015	0	0.539	J	0.25	
Landfill 2	BD-1507101314	2-4	07/10/2015	**--**	--		0.22	
Landfill 2	SB-LF2-42-150710-4-4.5	4-4.5	07/10/2015	5.4	0.296	ND	0.29	
Landfill 2	SB-LF2-43-150708-0-2	0-2	07/08/2015	0	--		0.35	J-
Landfill 2	SB-LF2-43-150708-2-4	2-4	07/08/2015	0	--		0.04	J-
Landfill 2	SB-LF2-43-150708-4-5	4-5	07/08/2015	13.1	--		**41**	J-
Landfill 2	BD-1507080834	4-5	07/08/2015	**--**	--		**15**	J-
Landfill 2	SB-LF2-43-150708-5-6	5-6	07/08/2015	**52**	--		--	
Landfill 2	SB-LF2-43-150708-6-7	6-7	07/08/2015	**503**	--		--	
Landfill 2	SB-LF2-43-150708-7-8	7-8	07/08/2015	0	--		0.72	J-
Landfill 2	SB-LF2-43-150708-8-9	8-9	07/08/2015	0	--		0.1	J-
Landfill 2	SB-LF2-43-150708-9-10	9-10	07/08/2015	0	--		0.37	J-
Landfill 2	SB-LF2-43-150708-10-11	10-11	07/08/2015	0	--		1.1	J-
Landfill 2	SB-LF2-43-150708-11-12	11-12	07/08/2015	0	--		0.04	J-
Landfill 2	SB-LF2-43-150708-12-13	12-13	07/08/2015	0	--		0.03	J-
Landfill 2	SB-LF2-43-150708-13-14	13-14	07/08/2015	0	--		0.02	R
Landfill 2	SB-LF2-43-150708-14-15	14-15	07/08/2015	0	--		0.02	R
Landfill 2	SB-LF2-43-150708-15-16	15-16	07/08/2015	**24**	--		--	
Landfill 2	SB-LF2-43-150708-16-17	16-17	07/08/2015	0	--		0.24	J-
Landfill 2	SB-LF2-43-150708-17-18	17-18	07/08/2015	8	--		0.02	ND
Landfill 2	SB-LF2-43-150708-18-19	18-19	07/08/2015	0	--		0.01	ND
Landfill 2	SB-LF2-43-150708-19-20	19-20	07/08/2015	0	--		0.01	ND
Landfill 2	SB-LF2-44-150708-0-1	0-1	07/08/2015	6.5	--		**4.8**	J-
Landfill 2	SB-LF2-44-150708-1-2	1-2	07/08/2015	0	--		1	J-
Landfill 2	SB-LF2-44-150708-2-3	2-3	07/08/2015	**116**	--		--	
Landfill 2	SB-LF2-44-150708-3-4	3-4	07/08/2015	**392**	--		--	
Landfill 2	SB-LF2-44-150708-4-5	4-5	07/08/2015	0	--		**14**	J-
Landfill 2	SB-LF2-44-150708-5-7	5-7	07/08/2015	0	--		**20**	J-
Landfill 2	SB-LF2-44-150708-7-9	7-9	07/08/2015	5.5	--		**19**	J-
Landfill 2	BD-1507081042	7-9	07/08/2015	**--**	--		**30**	J-
Landfill 2	SB-LF2-44-150708-9-10	9-10	07/08/2015	**16.7**	--		**22**	J-
Landfill 2	SB-LF2-44-150708-10-11	10-11	07/08/2015	**239**	--		--	
Landfill 2	SB-LF2-44-150708-11-12	11-12	07/08/2015	**235**	--		--	
Landfill 2	SB-LF2-44-150708-12-13	12-13	07/08/2015	**40**	--		--	
Landfill 2	SB-LF2-44-150708-13-14	13-14	07/08/2015	**59**	--		--	
Landfill 2	SB-LF2-44-150708-14-15	14-15	07/08/2015	0	--		0.02	ND
Landfill 2	SB-LF2-44-150708-15-16	15-16	07/08/2015	0	--		0.46	J-
Landfill 2	SB-LF2-44-150708-16-17	16-17	07/08/2015	0	--		0.14	J-
Landfill 2	SB-LF2-44-150708-17-18	17-18	07/08/2015	0	--		0.08	J-
Landfill 2	SB-LF2-44-150708-18-19	18-19	07/08/2015	0	--		0.02	R
Landfill 2	SB-LF2-44-150708-19-20	19-20	07/08/2015	0	--		0.02	R
Landfill 2	SB-LF2-44-150708-20-21	20-21	07/08/2015	0	--		0.97	J-
Landfill 2	SB-LF2-44-150708-21-22	21-22	07/08/2015	0	--		0.11	J-
Landfill 2	SB-LF2-44-150708-22-23	22-23	07/08/2015	0	--		0.07	J-
Landfill 2	SB-LF2-44-150708-23-24	23-24	07/08/2015	0	--		0.02	ND
Landfill 2	SB-LF2-44-150708-24-25	24-25	07/08/2015	0	--		0.01	ND
Landfill 2	SB-LF2-45-150708-0-1	0-1	07/08/2015	0	0.448	J	0.41	J+
Landfill 2	SB-LF2-45-150708-1-2	1-2	07/08/2015	0	0.264	ND	0.05	J+
Landfill 2	SB-LF2-45-150708-2-3	2-3	07/08/2015	0	0.264	ND	0.03	J+
Landfill 2	SB-LF2-45-150708-3-4	3-4	07/08/2015	0	0.266	ND	0.09	J+
Landfill 2	SB-LF2-45-150708-4-5	4-5	07/08/2015	0	0.272	ND	0.15	J+

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-45-150708-4-5-LR	4-5	07/08/2015	--	0.272	ND	--	
Landfill 2	SB-LF2-45-150708-5-6	5-6	07/08/2015	0	**3.011**		--	
Landfill 2	SB-LF2-45-150708-6-7	6-7	07/08/2015	**131**	--		--	
Landfill 2	SB-LF2-45-150708-7-8	7-8	07/08/2015	**718**	--		--	
Landfill 2	SB-LF2-45-150708-8-9	8-9	07/08/2015	**67**	--		--	
Landfill 2	SB-LF2-45-150708-9-10	9-10	07/08/2015	**76**	--		--	
Landfill 2	SB-LF2-45-150708-10-11	10-11	07/08/2015	**34**	--		--	
Landfill 2	SB-LF2-45-150708-11-12	11-12	07/08/2015	6.3	0.286	ND	0.62	J+
Landfill 2	SB-LF2-45-150708-12-13	12-13	07/08/2015	12.6	0.282	ND	0.02	ND
Landfill 2	SB-LF2-46-150708-0-1	0-1	07/08/2015	0	0.339	J	0.49	
Landfill 2	SB-LF2-46-150708-1-2	1-2	07/08/2015	0	0.266	ND	0.02	ND
Landfill 2	SB-LF2-46-150708-2-3	2-3	07/08/2015	0	0.266	ND	0.067	J
Landfill 2	SB-LF2-46-150708-3-4	3-4	07/08/2015	0	0.264	ND	0.09	
Landfill 2	SB-LF2-46-150708-4-5	4-5	07/08/2015	15	**37.835**		--	
Landfill 2	SB-LF2-46-150708-5-7	5-7	07/08/2015	0	**4.952**		--	
Landfill 2	SB-LF2-46-150708-7-9	7-9	07/08/2015	0	0.288	ND	0.04	J
Landfill 2	SB-LF2-46-150708-9-10	9-10	07/08/2015	0	0.275	ND	0.02	ND
Landfill 2	BD-1507081524	9-10	07/08/2015	--	--		0.02	ND
Landfill 2	SB-LF2-46-150708-10-11	10-11	07/08/2015	0	0.288	ND	0.02	J
Landfill 2	SB-LF2-46-150708-11-12	11-12	07/08/2015	0	0.285	ND	0.09	
Landfill 2	SB-LF2-46-150708-12-13	12-13	07/08/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-46-150708-13-14	13-14	07/08/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-46-150708-14-14.5	14-14.5	07/08/2015	0	0.272	ND	0.02	J
Landfill 2	SB-LF2-47-150709-0-1	0-1	07/09/2015	0	0.264	ND	0.06	J
Landfill 2	SB-LF2-47-150709-1-2	1-2	07/09/2015	0	0.266	ND	0.02	J
Landfill 2	SB-LF2-47-150709-2-3	2-3	07/09/2015	0	0.266	ND	0.06	J
Landfill 2	SB-LF2-47-150709-3-4	3-4	07/09/2015	0	0.273	ND	0.1	J+
Landfill 2	SB-LF2-47-150709-4-5	4-5	07/09/2015	**21**	**13.149**		--	
Landfill 2	SB-LF2-47-150709-5-6	5-6	07/09/2015	0	0.613		0.98	
Landfill 2	SB-LF2-47-150709-6-7	6-7	07/09/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-47-150709-7-8	7-8	07/09/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-7-8-LR	7-8	07/09/2015	--	0.281	ND	--	
Landfill 2	SB-LF2-47-150709-8-9	8-9	07/09/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-9-10	9-10	07/09/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-10-11	10-11	07/09/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-11-12	11-12	07/09/2015	0	0.287	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-11-12-LR	11-12	07/09/2015	--	0.287	ND	--	
Landfill 2	SB-LF2-47-150709-12-13	12-13	07/09/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-13-14	13-14	07/09/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-47-150709-14-15	14-15	07/09/2015	0	0.272	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-0-1	0-1	07/09/2015	0	0.269	ND	0.08	
Landfill 2	SB-LF2-48-150709-1-2	1-2	07/09/2015	0	0.261	ND	0.04	J
Landfill 2	SB-LF2-48-150709-2-3	2-3	07/09/2015	0	**3.146**		2	
Landfill 2	SB-LF2-48-150709-3-4	3-4	07/09/2015	0	**14.589**		--	
Landfill 2	SB-LF2-48-150709-4-5	4-5	07/09/2015	0	0.272	ND	0.01	ND
Landfill 2	BD-1507090948	4-5	07/09/2015	--	--		0.01	ND
Landfill 2	SB-LF2-48-150709-5-6	5-6	07/09/2015	0	0.290	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-6-7	6-7	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-7-8	7-8	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-8-9	8-9	07/09/2015	0	0.285	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-9-10	9-10	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-10-11	10-11	07/09/2015	0	0.287	ND	0.07	J-
Landfill 2	SB-LF2-48-150709-11-12	11-12	07/09/2015	0	0.286	ND	0.12	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-48-150709-12-13	12-13	07/09/2015	0	0.280	ND	0.12	
Landfill 2	SB-LF2-48-150709-13-14	13-14	07/09/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-48-150709-13-14-LR	13-14	07/09/2015	--	0.276	ND	--	
Landfill 2	SB-LF2-48-150709-14-15	14-15	07/09/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-0-1	0-1	07/09/2015	0	0.555	J	0.43	
Landfill 2	SB-LF2-49-150709-1-2	1-2	07/09/2015	7	**4.756**		**3.9**	
Landfill 2	SB-LF2-49-150709-2-3	2-3	07/09/2015	0	0.275	ND	0.02	ND
Landfill 2	BD-1507091114	2-3	07/09/2015	--	--		0.02	ND
Landfill 2	SB-LF2-49-150709-3-4	3-4	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-4-5	4-5	07/09/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-49-150709-5-6	5-6	07/09/2015	0	0.290	ND	0.12	
Landfill 2	SB-LF2-49-150709-6-7	6-7	07/09/2015	0	0.283	ND	0.08	J+
Landfill 2	SB-LF2-49-150709-7-8	7-8	07/09/2015	0	0.302	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-8-9	8-9	07/09/2015	0	0.284	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-9-10	9-10	07/09/2015	0	0.280	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-10-11	10-11	07/09/2015	0	0.280	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-11-12	11-12	07/09/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-12-13	12-13	07/09/2015	0	0.270	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-13-14	13-14	07/09/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-49-150709-13-14-LR	13-14	07/09/2015	--	0.273	ND	--	
Landfill 2	SB-LF2-49-150709-14-15	14-15	07/09/2015	0	0.262	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-0-2	0-2	07/09/2015	0	0.270	ND	0.29	
Landfill 2	SB-LF2-50-150709-2-4	2-4	07/09/2015	0	0.271	ND	0.42	J+
Landfill 2	SB-LF2-50-150709-4-5	4-5	07/09/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-5-6	5-6	07/09/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-6-7	6-7	07/09/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-7-8	7-8	07/09/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-8-9	8-9	07/09/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-50-150709-9-10	9-10	07/09/2015	0	0.272	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-0-2	0-2	07/09/2015	0	0.367	J	0.4	J-
Landfill 2	SB-LF2-51-150709-2-4	2-4	07/09/2015	0	0.273	ND	0.04	J+
Landfill 2	SB-LF2-51-150709-4-5	4-5	07/09/2015	0	0.282	ND	0.02	J+
Landfill 2	SB-LF2-51-150709-5-6	5-6	07/09/2015	0	0.282	ND	0.02	J+
Landfill 2	SB-LF2-51-150709-6-7	6-7	07/09/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-7-8	7-8	07/09/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-7-8-LR	7-8	07/09/2015	--	0.279	ND	--	
Landfill 2	SB-LF2-51-150709-8-9	8-9	07/09/2015	0	0.277	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-9-10	9-10	07/09/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-10-11	10-11	07/09/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-11-12	11-12	07/09/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-12-13	12-13	07/09/2015	0	0.270	ND	0.01	ND
Landfill 2	SB-LF2-51-150709-13-14	13-14	07/09/2015	0	0.270	ND	0.02	ND
Landfill 2	SB-LF2-51-150709-14-15	14-15	07/09/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-52-150709-0-1	0-1	07/09/2015	**27**	--		--	
Landfill 2	SB-LF2-52-150709-1-2	1-2	07/09/2015	14	0.700		0.35	J
Landfill 2	SB-LF2-52-150709-2-3	2-3	07/09/2015	0	0.295	ND	0.54	
Landfill 2	SB-LF2-52-150709-3-4	3-4	07/09/2015	**71**	--		--	
Landfill 2	SB-LF2-52-150709-4-5	4-5	07/09/2015	0	0.321	J	0.36	
Landfill 2	SB-LF2-52-150709-5-6	5-6	07/09/2015	0	0.313	J	0.09	
Landfill 2	SB-LF2-52-150709-6-7	6-7	07/09/2015	0	0.284	ND	0.02	J
Landfill 2	SB-LF2-52-150709-7-8	7-8	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-52-150709-8-9	8-9	07/09/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-52-150709-9-10	9-10	07/09/2015	0	0.278	ND	0.02	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-52-150709-10-11	10-11	07/09/2015	0	0.285	ND	0.3	
Landfill 2	SB-LF2-52-150709-11-12	11-12	07/09/2015	0	0.278	ND	0.02	J
Landfill 2	SB-LF2-52-150709-12-13	12-13	07/09/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-52-150709-13-14	13-14	07/09/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-52-150709-13-14-LR	13-14	07/09/2015	--	0.273	ND	--	
Landfill 2	SB-LF2-52-150709-14-15	14-15	07/09/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-53-150709-0-1	0-1	07/09/2015	**18**	**9.419**		--	
Landfill 2	SB-LF2-53-150709-1-2	1-2	07/09/2015	0	0.447	J	0.45	
Landfill 2	SB-LF2-53-150709-2-3	2-3	07/09/2015	0	0.303	ND	0.04	J
Landfill 2	SB-LF2-53-150709-3-4	3-4	07/09/2015	0	0.303	ND	0.02	J
Landfill 2	SB-LF2-53-150709-4-5	4-5	07/09/2015	0	0.307	ND	0.02	J
Landfill 2	SB-LF2-53-150709-5-6	5-6	07/09/2015	0	0.717		0.68	
Landfill 2	SB-LF2-53-150709-6-7	6-7	07/09/2015	0	0.300	ND	0.03	J
Landfill 2	SB-LF2-53-150709-7-8	7-8	07/09/2015	0	0.307	ND	0.02	ND
Landfill 2	SB-LF2-53-150709-8-9	8-9	07/09/2015	0	0.304	ND	0.02	ND
Landfill 2	SB-LF2-53-150709-8-9-LR	8-9	07/09/2015	--	0.304	ND	--	
Landfill 2	SB-LF2-53-150709-9-10	9-10	07/09/2015	0	0.291	ND	0.02	ND
Landfill 2	SB-LF2-54-150710-0-1	0-1	07/10/2015	0	0.317	ND	0.34	J+
Landfill 2	SB-LF2-54-150710-1-2	1-2	07/10/2015	0	0.736		0.91	J+
Landfill 2	SB-LF2-54-150710-2-3	2-3	07/10/2015	0	0.294	ND	0.1	J+
Landfill 2	SB-LF2-54-150710-3-4	3-4	07/10/2015	0	0.307	ND	0.02	ND
Landfill 2	SB-LF2-54-150710-4-5	4-5	07/10/2015	0	0.320	ND	0.02	ND
Landfill 2	SB-LF2-54-150710-5-6	5-6	07/10/2015	0	0.309	ND	0.02	ND
Landfill 2	SB-LF2-55-150710-0-1	0-1	07/10/2015	0	0.294	ND	0.07	J
Landfill 2	SB-LF2-55-150710-1-2	1-2	07/10/2015	0	0.299	ND	0.03	J
Landfill 2	SB-LF2-55-150710-2-3	2-3	07/10/2015	0	0.464	J	0.44	
Landfill 2	SB-LF2-55-150710-3-4	3-4	07/10/2015	0	1.643		1.4	
Landfill 2	SB-LF2-55-150710-4-5	4-5	07/10/2015	0	0.332	ND	0.09	J
Landfill 2	BD-1507101038	4-5	07/10/2015	--	--		0.14	
Landfill 2	SB-LF2-55-150710-5-6	5-6	07/10/2015	0	0.298	ND	0.02	ND
Landfill 2	SB-LF2-55-150710-6-7	6-7	07/10/2015	0	0.307	ND	0.03	J
Landfill 2	SB-LF2-55-150710-7-8	7-8	07/10/2015	0	0.308	ND	0.02	ND
Landfill 2	SB-LF2-55-150710-7-8-LR	7-8	07/10/2015	--	0.308	ND	--	
Landfill 2	SB-LF2-56-150717-0-2	0-2	07/17/2015	0	0.719		0.52	
Landfill 2	SB-LF2-56-150717-2-4	2-4	07/17/2015	0	0.572	J	0.47	
Landfill 2	SB-LF2-56-150717-4-5	4-5	07/17/2015	0	0.279	ND	0.24	
Landfill 2	SB-LF2-56-150717-5-6	5-6	07/17/2015	0	0.322	J	0.15	
Landfill 2	SB-LF2-56-150717-6-7	6-7	07/17/2015	0	0.284	ND	0.02	J
Landfill 2	SB-LF2-56-150717-7-8	7-8	07/17/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-56-150717-8-9	8-9	07/17/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-56-150717-9-10	9-10	07/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-57-150717-0-4	0-4	07/17/2015	0	0.263	ND	0.02	J
Landfill 2	SB-LF2-57-150717-4-5	4-5	07/17/2015	0	0.271	ND	0.08	J
Landfill 2	SB-LF2-57A-150717-5-6	5-6	07/17/2015	**217**	--		--	
Landfill 2	SB-LF2-57A-150717-6-7	6-7	07/17/2015	**17**	--		--	
Landfill 2	SB-LF2-57A-150717-7-8	7-8	07/17/2015	0	0.305	ND	0.34	
Landfill 2	SB-LF2-57A-150717-8-9	8-9	07/17/2015	0	0.282	ND	0.14	
Landfill 2	SB-LF2-57A-150717-9-10	9-10	07/17/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-57-150717-10-11	10-11	07/17/2015	0	**9.164**		--	
Landfill 2	SB-LF2-57-150717-11-12	11-12	07/17/2015	0	1.576		1.2	
Landfill 2	SB-LF2-57-150717-12-13	12-13	07/17/2015	0	0.283	ND	0.11	
Landfill 2	SB-LF2-57-150717-13-14	13-14	07/17/2015	0	0.283	ND	0.27	
Landfill 2	SB-LF2-57-150717-14-15	14-15	07/17/2015	0	0.278	ND	0.04	J

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-58-150717-0-4	0-4	07/17/2015	0	0.263	ND	0.13	
Landfill 2	SB-LF2-58-150717-4-5	4-5	07/17/2015	0	0.264	ND	0.02	J
Landfill 2	SB-LF2-58-150717-5-7	5-7	07/17/2015	0	0.945		0.85	
Landfill 2	SB-LF2-58-150717-7-9	7-9	07/17/2015	0	0.287	ND	0.02	ND
Landfill 2	SB-LF2-58-150717-9-10	9-10	07/17/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-58-150717-10-11	10-11	07/17/2015	0	0.271	ND	0.08	
Landfill 2	SB-LF2-58-150717-11-12	11-12	07/17/2015	0	0.277	ND	0.02	ND
Landfill 2	SB-LF2-58-150717-12-13	12-13	07/17/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-58-150717-13-14	13-14	07/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-58-150717-13-14-LR	13-14	07/17/2015	--	0.275	ND	--	
Landfill 2	SB-LF2-58-150717-14-15	14-15	07/17/2015	0	0.272	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-0-2	0-2	07/16/2015	0	0.265	ND	0.02	J
Landfill 2	SB-LF2-59-150716-2-4	2-4	07/16/2015	0	0.266	ND	0.07	J
Landfill 2	SB-LF2-59-150716-4-5	4-5	07/16/2015	8	**6.121**		--	
Landfill 2	SB-LF2-59-150716-5-6	5-6	07/16/2015	0	0.277	ND	0.03	J
Landfill 2	SB-LF2-59-150716-6-7	6-7	07/16/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-7-8	7-8	07/16/2015	0	0.285	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-8-9	8-9	07/16/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-9-10	9-10	07/16/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-10-11	10-11	07/16/2015	0	0.279	ND	0.05	J
Landfill 2	SB-LF2-59-150716-11-12	11-12	07/16/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-12-13	12-13	07/16/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-13-14	13-14	07/16/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-14-15	14-15	07/16/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-59-150716-14-15-LR	14-15	07/16/2015	--	0.273	ND	--	
Landfill 2	SB-LF2-60-150716-0-1	0-1	07/16/2015	0	0.266	ND	0.02	ND
Landfill 2	SB-LF2-60-150716-1-2	1-2	07/16/2015	0	0.268	ND	0.06	J
Landfill 2	BD-1507161522	1-2	07/16/2015	--	--		0.07	J
Landfill 2	SB-LF2-60-150716-2-3	2-3	07/16/2015	0	0.260	ND	0.04	J
Landfill 2	SB-LF2-60-150716-3-4	3-4	07/16/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-60-150716-4-5	4-5	07/16/2015	0	0.283	ND	0.02	J
Landfill 2	SB-LF2-60-150716-5-6	5-6	07/16/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-60-150716-6-7	6-7	07/16/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-60-150716-7-8	7-8	07/16/2015	0	0.278	ND	0.02	ND
Landfill 2	SB-LF2-60-150716-8-9	8-9	07/16/2015	0	0.280	ND	0.02	ND
Landfill 2	SB-LF2-60-150716-9-10	9-10	07/16/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-61-150806-0-1	0-1	08/06/2015	0	0.267	ND	0.05	J
Landfill 2	SB-LF2-61-150806-1-2	1-2	08/06/2015	0	0.265	ND	0.01	ND
Landfill 2	SB-LF2-61-150806-2-3	2-3	08/06/2015	0	0.714		1.1	
Landfill 2	SB-LF2-61-150806-3-4	3-4	08/06/2015	6	**4.758**		--	
Landfill 2	SB-LF2-61-150806-4-5	4-5	08/06/2015	0	0.283	ND	0.03	J
Landfill 2	SB-LF2-61-150806-5-6	5-6	08/06/2015	0	0.282	ND	0.04	J
Landfill 2	BD-1508061020	5-6	08/06/2015	--	--		0.03	J
Landfill 2	SB-LF2-61-150806-6-7	6-7	08/06/2015	0	0.283	ND	0.03	J
Landfill 2	SB-LF2-61-150806-7-8	7-8	08/06/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-61-150806-8-9	8-9	08/06/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-61-150806-9-10	9-10	08/06/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-61-150806-10-11	10-11	08/06/2015	0	0.279	ND	0.18	
Landfill 2	SB-LF2-62-150806-0-1	0-1	08/06/2015	0	**2.900**		--	
Landfill 2	SB-LF2-62-150806-1-2	1-2	08/06/2015	0	0.313	ND	0.07	J
Landfill 2	SB-LF2-62-150806-2-3	2-3	08/06/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-62-150806-3-4	3-4	08/06/2015	0	0.285	ND	0.03	J
Landfill 2	SB-LF2-62-150806-4-5	4-5	08/06/2015	0	0.279	ND	0.02	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-62-150806-5-6	5-6	08/06/2015	0	0.283	ND	0.24	
Landfill 2	SB-LF2-62-150806-6-7	6-7	08/06/2015	0	0.280	ND	0.02	ND
Landfill 2	SB-LF2-62-150806-7-8	7-8	08/06/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-62-150806-8-9	8-9	08/06/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-62-150806-9-10	9-10	08/06/2015	0	0.286	ND	0.02	ND
Landfill 2	SB-LF2-62-150806-9-10-LR	9-10	08/06/2015	--	0.286	ND	--	
Landfill 2	SB-LF2-62-150806-10-11	10-11	08/06/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-63-150810-0-1	0-1	08/10/2015	0	0.351	J	0.48	
Landfill 2	SB-LF2-63-150810-0-1-LR	0-1	08/10/2015	--	0.728		--	
Landfill 2	SB-LF2-63-150810-1-2	1-2	08/10/2015	0	0.286	ND	0.15	
Landfill 2	SB-LF2-63-150810-2-3	2-3	08/10/2015	0	0.287	ND	0.02	ND
Landfill 2	SB-LF2-63-150810-3-4	3-4	08/10/2015	0	0.289	ND	0.02	ND
Landfill 2	SB-LF2-63-150810-4-5	4-5	08/10/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-63-150810-5-7	5-7	08/10/2015	0	0.266	ND	0.05	J
Landfill 2	BD-1508101050	5-7	08/10/2015	--	--		0.08	
Landfill 2	SB-LF2-63-150810-7-9	7-9	08/10/2015	7	**2.638**		--	
Landfill 2	SB-LF2-63-150810-9-10	9-10	08/10/2015	0	0.279	ND	0.03	J
Landfill 2	SB-LF2-64-150806-0-1	0-1	08/06/2015	0	0.257	ND	0.02	J
Landfill 2	SB-LF2-64-150806-1-2	1-2	08/06/2015	0	0.261	ND	0.02	ND
Landfill 2	SB-LF2-64-150806-2-3	2-3	08/06/2015	0	0.264	ND	0.02	ND
Landfill 2	SB-LF2-64-150806-3-4	3-4	08/06/2015	0	0.266	ND	0.02	ND
Landfill 2	SB-LF2-64-150806-4-5	4-5	08/06/2015	0	0.274	ND	0.03	J
Landfill 2	SB-LF2-64-150806-5-6	5-6	08/06/2015	**97**	--		--	
Landfill 2	SB-LF2-64-150806-6-7	6-7	08/06/2015	0	0.652		0.64	
Landfill 2	SB-LF2-64-150806-7-8	7-8	08/06/2015	0	0.295	ND	0.06	J
Landfill 2	BD-1508061444	7-8	08/06/2015	--	--		0.02	ND
Landfill 2	SB-LF2-64-150806-8-9	8-9	08/06/2015	0	0.330	ND	0.11	
Landfill 2	SB-LF2-64-150806-9-10	9-10	08/06/2015	0	0.286	ND	0.02	J
Landfill 2	SB-LF2-64-150806-10-11	10-11	08/06/2015	0	0.281	ND	0.07	J
Landfill 2	SB-LF2-64-150806-10-11-LR	10-11	08/06/2015	--	0.281	ND	--	
Landfill 2	SB-LF2-65-150810-0-2	0-2	08/10/2015	0	0.477	J	0.36	
Landfill 2	SB-LF2-65-150810-2-3	2-3	08/10/2015	0	0.290	ND	0.05	J
Landfill 2	SB-LF2-65-150810-3-4	3-4	08/10/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-65-150810-4-5	4-5	08/10/2015	0	0.288	ND	0.02	J
Landfill 2	BD-1508100926	4-5	08/10/2015	--	--		0.02	J
Landfill 2	SB-LF2-65-150810-5-6	5-6	08/10/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-65-150810-5-6-LR	5-6	08/10/2015	--	0.283	ND	--	
Landfill 2	SB-LF2-66-150827-0-1	0-1	08/27/2015	0	0.281	ND	0.06	J
Landfill 2	SB-LF2-66-150827-1-2	1-2	08/27/2015	0	0.265	ND	0.02	J
Landfill 2	SB-LF2-66-150827-2-3	2-3	08/27/2015	0	0.276	ND	0.03	J
Landfill 2	SB-LF2-67-150910-0-1	0-1	09/10/2015	0	0.459	J	0.36	
Landfill 2	SB-LF2-67-150910-1-2	1-2	09/10/2015	6.2	**3.659**		--	
Landfill 2	SB-LF2-67-150910-2-3	2-3	09/10/2015	0	0.267	ND	0.01	ND
Landfill 2	SB-LF2-67-150910-3-4	3-4	09/10/2015	0	0.279	ND	0.02	J
Landfill 2	SB-LF2-67-150910-4-5	4-5	09/10/2015	0	0.282	ND	0.02	ND
Landfill 2	BD-1509101138	4-5	09/10/2015	--	--		0.02	ND
Landfill 2	SB-LF2-67-150910-5-6	5-6	09/10/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-67-150910-6-7	6-7	09/10/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-67-150910-7-8	7-8	09/10/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-0-1	0-1	09/10/2015	0	0.268	ND	0.12	
Landfill 2	SB-LF2-68-150910-1-2	1-2	09/10/2015	0	0.268	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-2-3	2-3	09/10/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-3-4	3-4	09/10/2015	0	0.290	ND	0.02	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Landfill 2	SB-LF2-68-150910-4-5	4-5	09/10/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-5-6	5-6	09/10/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-6-7	6-7	09/10/2015	0	0.283	ND	0.02	ND
Landfill 2	SB-LF2-68-150910-6-7-LR	6-7	09/10/2015	--	0.283	ND	--	
Landfill 2	SB-LF2-69-150910-0-1	0-1	09/10/2015	0	0.257	ND	0.02	J
Landfill 2	SB-LF2-69-150910-1-2	1-2	09/10/2015	0	0.261	ND	0.02	ND
Landfill 2	SB-LF2-69-150910-2-3	2-3	09/10/2015	0	0.262	ND	0.01	ND
Landfill 2	SB-LF2-69-150910-3-4	3-4	09/10/2015	0	0.263	ND	0.01	ND
Landfill 2	SB-LF2-69-150910-4-5	4-5	09/10/2015	0	0.270	ND	0.14	
Landfill 2	SB-LF2-69-150910-5-8	5-8	09/10/2015	0	0.270	ND	0.06	J
Landfill 2	SB-LF2-69-150910-8-10	8-10	09/10/2015	0	0.272	ND	0.04	J
Landfill 2	SB-LF2-69-150910-10-12	10-12	09/10/2015	0	0.304	ND	0.05	J
Landfill 2	SB-LF2-69-150910-12-14	12-14	09/10/2015	0	0.299	ND	0.02	J
Landfill 2	SB-LF2-70-150910-0-1	0-1	09/10/2015	0	0.270	ND	0.03	J
Landfill 2	BD-1509101036	0-1	09/10/2015	--	--		0.03	J
Landfill 2	SB-LF2-70-150910-1-2	1-2	09/10/2015	0	0.267	ND	0.02	J
Landfill 2	SB-LF2-70-150910-2-3	2-3	09/10/2015	0	0.282	ND	0.02	J
Landfill 2	SB-LF2-70-150910-3-4	3-4	09/10/2015	0	0.282	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-4-5	4-5	09/10/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-5-6	5-6	09/10/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-6-7	6-7	09/10/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-7-8	7-8	09/10/2015	0	0.280	ND	0.02	J
Landfill 2	SB-LF2-70-150910-8-9	8-9	09/10/2015	0	0.276	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-9-10	9-10	09/10/2015	0	0.279	ND	0.02	ND
Landfill 2	SB-LF2-70-150910-9-10-LR	9-10	09/10/2015	--	0.279	ND	--	
Landfill 2	SB-LF2-71-150917-0-2	0-2	09/17/2015	0	1.269		1.7	
Landfill 2	SB-LF2-71-150917-2-4	2-4	09/17/2015	0	0.273	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-4-5	4-5	09/17/2015	0	0.281	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-5-6	5-6	09/17/2015	0	0.280	ND	0.17	
Landfill 2	SB-LF2-71-150917-6-7	6-7	09/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-7-8	7-8	09/17/2015	0	0.274	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-8-9	8-9	09/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-9-10	9-10	09/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-10-11	10-11	09/17/2015	0	0.283	ND	0.27	
Landfill 2	SB-LF2-71-150917-11-12	11-12	09/17/2015	0	0.274	ND	0.02	ND
Landfill 2	BD-1509170910	11-12	09/17/2015	--	--		0.02	ND
Landfill 2	SB-LF2-71-150917-12-13	12-13	09/17/2015	0	0.275	ND	0.02	ND
Landfill 2	SB-LF2-71-150917-13-14	13-14	09/17/2015	0	0.278	ND	0.02	ND
Southerly Stream	TS-SS-A1-150803-0-1	0-1	08/03/2015	0	0.311	ND	0.03	J+
Southerly Stream	TS-SS-A1-150803-1-2	1-2	08/03/2015	0	0.296	ND	0.02	ND
Southerly Stream	TS-SS-A1-150803-2-3	2-3	08/03/2015	0	0.296	ND	0.02	ND
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	0	0.303	ND	0.02	ND
Southerly Stream	TS-SS-A2-150803-0-1	0-1	08/03/2015	0	0.333	ND	0.06	J
Southerly Stream	TS-SS-A2-150803-1-2	1-2	08/03/2015	0	0.297	ND	0.02	ND
Southerly Stream	TS-SS-A2-150803-2-3	2-3	08/03/2015	0	0.297	ND	0.02	ND
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	0	0.297	ND	0.02	ND
Southerly Stream	TS-SS-A3-150804-0-1	0-1	08/04/2015	0	0.314	ND	0.15	
Southerly Stream	TS-SS-A3-150804-1-2	1-2	08/04/2015	0	0.289	ND	0.02	ND
Southerly Stream	BD-1508040756	1-2	08/04/2015	--	--		0.02	ND
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	0	0.296	ND	0.02	ND
Southerly Stream	TS-SS-B1-150804-0-1	0-1	08/04/2015	0	0.341	ND	0.24	
Southerly Stream	TS-SS-B1-150804-1-2	1-2	08/04/2015	0	0.298	ND	0.02	ND
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	0	0.302	ND	0.02	ND

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Southerly Stream	TS-SS-B2-150805-0-1	0-1	08/05/2015	0	0.428	J	0.51	
Southerly Stream	TS-SS-B2-150805-1-2	1-2	08/05/2015	0	0.299	ND	0.03	J
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	0	0.306	ND	0.02	J
Southerly Stream	TS-SS-B3-150805-0-1	0-1	08/05/2015	0	0.386	J	0.3	
Southerly Stream	TS-SS-B3-150805-1-2	1-2	08/05/2015	0	0.297	ND	0.02	J
Southerly Stream	BD-1508051536	1-2	08/05/2015	--	--		0.02	ND
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	0	0.308	ND	0.03	J
Southerly Stream	TS-SS-B4-150825-0-1	0-1	08/25/2015	0	1.242		0.83	
Southerly Stream	TS-SS-B4-150825-1-2	1-2	08/25/2015	0	0.312	ND	0.08	J-
Southerly Stream	TS-SS-B4-150825-1-2-LR	1-2	08/25/2015	--	0.312	ND	--	
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	0	0.290	ND	0.02	J
Southerly Stream	TS-SS-C1-150804-0-1	0-1	08/04/2015	0	**2.525**		1.8	
Southerly Stream	TS-SS-C1-150804-1-2	1-2	08/04/2015	0	0.301	ND	0.02	ND
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	0	0.306	ND	0.02	J
Southerly Stream	TS-SS-C2-150805-0-1	0-1	08/05/2015	0	0.340	ND	0.15	
Southerly Stream	TS-SS-C2-150805-1-2	1-2	08/05/2015	0	0.297	ND	0.02	ND
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	0	0.304	ND	0.03	J
Southerly Stream	TS-SS-C3-150805-0-1	0-1	08/05/2015	0	0.353	ND	0.34	
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	0	0.303	ND	0.02	J
Southerly Stream	TS-SS-C3-150805-1-3-LR	1-3	08/05/2015	--	0.303	ND	--	
Southerly Stream	TS-SS-D1-150804-0-1	0-1	08/04/2015	0	1.069		1.3	
Southerly Stream	TS-SS-D1-150804-1-2	1-2	08/04/2015	0	0.289	ND	0.21	
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	0	0.288	ND	0.5	
Southerly Stream	TS-SS-D2-150806-0-1	0-1	08/06/2015	**21.2**	**17.978**		--	
Southerly Stream	TS-SS-D2-150806-1-2	1-2	08/06/2015	0	0.291	ND	0.13	
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	0	0.516	J	0.49	
Southerly Stream	TS-SS-D3-150806-0-1.5	0-1.5	08/06/2015	0	1.374		1	
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	0	0.334	J	0.51	
Southerly Stream	TS-SS-E1-150804-0-1	0-1	08/04/2015	0	2.037		1.9	
Southerly Stream	TS-SS-E1-150804-0-1-LR	0-1	08/04/2015	--	2.110		--	
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	0	0.293	ND	0.16	
Southerly Stream	TS-SS-E2-150806-0-1	0-1	08/06/2015	0	2.092		1.1	
Southerly Stream	TS-SS-E2-150806-1-2	1-2	08/06/2015	0	0.285	ND	0.09	
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	0	0.279	ND	0.08	
Southerly Stream	TS-SS-E3-150806-0-1	0-1	08/06/2015	0	**10.295**		--	
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	0	0.292	ND	0.075	J
Southerly Stream	TS-SS-F1-150804-0-1	0-1	08/04/2015	0	**4.466**	J	--	
Southerly Stream	TS-SS-F1-150804-1-2	1-2	08/04/2015	0	0.317	ND	0.11	
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	0	0.299	ND	0.1	
Southerly Stream	TS-SS-F2-150806-0-1	0-1	08/06/2015	0	**3.288**		--	
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	0	0.285	ND	0.02	J
Southerly Stream	TS-SS-F3-150806-0-1.5	0-1.5	08/06/2015	0	1.177		0.82	
Southerly Stream	TS-SS-F3-150806-0-1.5-LR	0-1.5	08/06/2015	--	1.060		--	
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	0	0.294	ND	0.04	J
Southerly Stream	TS-SS-G1-150804-0-1	0-1	08/04/2015	0	**6.707**		--	
Southerly Stream	TS-SS-G1-150804-1-2	1-2	08/04/2015	0	0.323	ND	0.17	
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	0	0.300	ND	0.17	
Southerly Stream	TS-SS-G2-150806-0-1.5	0-1.5	08/06/2015	0	1.889		1.5	
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	0	0.299	ND	0.04	J
Southerly Stream	TS-SS-G3-150806-0-1	0-1	08/06/2015	0	**8.931**		--	
Southerly Stream	TS-SS-G3-150806-1-2	1-2	08/06/2015	0	0.377	ND	0.16	
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	0	0.302	ND	0.03	J
Southerly Stream	TS-SS-H1-150804-0-1	0-1	08/04/2015	11	**10.268**		--	

Location	Sample ID	Depth Interval (ft)	Sample Date	Mercury by XRF Analysis (mg/kg)	Mercury by Method 7473 (mg/kg)	Mercury by Method 7473 Qualifier	Mercury by Method 7471 (mg/kg)	Mercury by Method 7471 Qualifier
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	0	0.294	ND	0.04	J
Southerly Stream	TS-SS-H2-150806-0-1	0-1	08/06/2015	0	1.464		1.4	
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	0	0.309	ND	0.05	J
Southerly Stream	TS-SS-H3-150806-0-1	0-1	08/06/2015	0	**2.786**		--	
Southerly Stream	TS-SS-H3-150806-1-2	1-2	08/06/2015	0	0.306	ND	0.14	
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	0	0.288	ND	0.03	J
Southerly Stream	TS-SS-H3-150806-2-3-LR	2-3	08/06/2015	--	0.288	ND	--	
Southerly Stream	TS-SS-I1-150804-0-1	0-1	08/04/2015	13	**12.569**	J		
Southerly Stream	TS-SS-I1-150804-1-3	1-3	08/04/2015	7	**9.826**			
Southerly Stream	TS-SS-I1A-150806-3-4	3-4	08/06/2015	0	1.161		0.18	
Southerly Stream	TS-SS-I1A-150806-4-5	4-5	08/06/2015	0	0.303	ND	0.09	
Southerly Stream	TS-SS-I1A-150806-5-6	5-6	08/06/2015	0	0.302	ND	0.02	ND
Southerly Stream	TS-SS-I2-150825-0-1	0-1	08/25/2015	8.9	**4.562**			
Southerly Stream	TS-SS-I2-150825-1-2	1-2	08/25/2015	6.6	**3.160**			
Southerly Stream	TS-SS-I2-150825-2-3	2-3	08/25/2015	0	0.299	ND	0.05	J
Southerly Stream	TS-SS-I3-150825-0-1	0-1	08/25/2015	0	0.930		0.4	
Southerly Stream	TS-SS-I3-150825-1-2	1-2	08/25/2015	0	0.290	ND	0.11	
Southerly Stream	TS-SS-I3-150825-2-3	2-3	08/25/2015	0	0.277	ND	0.02	J

Notes:
Data are from the 2014 Pre-Design Investigation and 2015 Pre-Design Investigation.
-- indicates that the analyte was not measured.

Bold number indicates that the mercury concentration is over the MPS of 2.2 mg/kg by method 7473 or 7471 or XRF greater than 15 mg/kg.
'LR' noted after the Sample ID indicates samples that were run as laboratory replicates.
DMA analysis (method 7473) of the 2015 Pre-Design investigation was conducted in a laboratory certified by the state of Maine.
Qualifiers:
- A blank cell indicates that there is no qualifier for the corresponding data
- J: Estimated; the compound was detected between the detection limit and the reporting limit
- J+: Estimated; biased high
- J-: Estimated; biased low
- R: Rejected
- ND: The compound was not detected above the reporting limit shown in the results column
- NDJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

APPENDIX A-2

Landfill 2 and Southerly Stream – Pre-Design Additional COCs with Soil MPS

DRAFT

Location	Sample ID	Sample Depth (ft)	Cadmium (mg/kg)	Cadmium Qualifier	Chloropicrin (mg/kg)	Chloropicrin Qualifier	Ethylbenzene (mg/kg)	Ethylbenzene Qualifier	Total PCBs (mg/kg)	Total PCB Qualifier	Total Xylenes (mg/kg)	Total Xylenes Qualifier
Landfill 2	SB-LF2-01-141218-3-4	3-4	0.49	ND	0.074	ND	0.0007	ND	0.008	ND	0.0015	ND
Landfill 2	SB-LF2-02-141218-3-4	3-4	0.47	ND	0.074	ND	0.0007	ND	0.008	ND	0.0015	ND
Landfill 2	SB-LF2-02-141218-7-8	7-8	0.48	ND	0.057	ND	0.0006	ND	0.008	ND	0.0004	J
Landfill 2	SB-LF2-02-141218-11-12	11-12	0.86	ND	0.050	ND	0.0005	ND	0.007	ND	0.0010	ND
Landfill 2	SB-LF2-03-141218-3-4	3-4	0.45	ND	0.064	ND	0.0002	J	0.007	ND	0.0029	J
Landfill 2	BD-1412180906	3-4	0.47	ND	0.071	ND	0.0003	J	0.008	ND	0.0030	J
Landfill 2	SB-LF2-03-141218-5-6	5-6	0.49	ND	0.100	ND	0.0010	ND	0.008	ND	0.0003	J
Landfill 2	SB-LF2-03-141218-9-10	9-10	0.47	ND	0.072	ND	0.0007	ND	0.008	ND	0.0014	ND
Landfill 2	SB-LF2-04-141218-3-4	3-4	0.44	ND	0.052	ND	0.0005	ND	0.007	ND	0.0010	ND
Landfill 2	SB-LF2-04-141218-7-8	7-8	0.51	ND	0.074	ND	0.0007	ND	0.008	ND	0.0015	ND
Landfill 2	SB-LF2-04-141218-10-12	10-12	0.9	ND	0.065	ND	0.0007	ND	0.008	ND	0.0013	ND
Landfill 2	SB-LF2-04-141218-15-17	15-17	0.86	ND	0.050	ND	0.0005	ND	0.007	ND	0.0010	ND
Landfill 2	SB-LF2-04-141218-19-20	19-20	0.85	ND	0.070	ND	0.0014	ND	0.007	ND	0.0028	ND
Landfill 2	SB-LF2-05-141218-3-5	3-5	0.49	ND	0.065	ND	0.0007	ND	0.008	ND	0.0013	ND
Landfill 2	SB-LF2-05-141218-7-8	7-8	0.51	ND	0.065	ND	0.0007	ND	0.008	ND	0.0013	ND
Landfill 2	SB-LF2-05-141218-11-12	11-12	0.4	ND	0.063	ND	0.0006	ND	0.007	ND	0.0013	ND
Landfill 2	SB-LF2-06-141217-3-4	3-4	0.93	ND	0.067	ND	0.0007	ND	0.007	ND	0.0013	ND
Landfill 2	SB-LF2-06-141217-7-8	7-8	0.99	ND	0.083	ND	0.0066		0.008	ND	0.0003	J
Landfill 2	SB-LF2-06-141217-11-12	11-12	0.9	ND	0.068	ND	0.0007	ND	0.008	ND	0.0014	ND
Landfill 2	SB-LF2-07-141217-3-4	3-4	0.43	ND	0.065	ND	0.0007	ND	0.007	ND	0.0002	J
Landfill 2	SB-LF2-07-141217-7-8	7-8	0.44	ND	0.044	ND	0.0004	ND	0.007	ND	0.0009	ND
Landfill 2	SB-LF2-07-141217-11-12	11-12	0.45	ND	0.060	ND	0.0006	ND	0.008	ND	0.0012	ND
Landfill 2	SB-LF2-07-141217-15-16	15-16	0.42	ND	0.071	ND	0.0007	ND	0.007	ND	0.0014	ND
Landfill 2	SB-LF2-08-141217-3-4	3-4	0.96	ND	0.093	ND	0.0009	ND	0.008	ND	0.0018	ND
Landfill 2	SB-LF2-08-141217-7-8	7-8	0.54	ND	0.089	ND	0.0009	ND	0.009	ND	0.0018	ND
Landfill 2	SB-LF2-09-141217-3-4	3-4	0.92	ND	0.073	ND	0.0007	ND	0.008	ND	0.0015	ND
Landfill 2	SB-LF2-09-141217-7-8	7-8	1.1	ND	0.085	ND	0.0009	ND	0.009	ND	0.0017	ND
Landfill 2	BD-1412171006	7-8	1.1	ND	0.079	ND	0.0008	ND	0.009	ND	0.0016	ND
Landfill 2	SB-LF2-09-141217-11-12	11-12	0.86	ND	0.059	ND	0.0006	ND	0.007	ND	0.0012	ND
Landfill 2	SB-LF2-10-141217-3-4	3-4	0.92	ND	0.072	ND	0.0007	ND	0.008	ND	0.0014	ND
Landfill 2	SB-LF2-10-141217-7-8	7-8	0.92	ND	0.057	ND	0.0006	ND	0.008	ND	0.0011	ND
Landfill 2	BD-1412170816	7-8	0.86	ND	0.073	ND	0.0007	ND	0.007	ND	0.0015	ND
Landfill 2	SB-LF2-10-141217-11-12	11-12	0.87	ND	0.065	ND	0.0013	ND	0.008	ND	0.0025	ND
Landfill 2	SB-LF2-11-141217-3-4	3-4	0.94	ND	0.056	ND	0.0006	ND	0.008	ND	0.0011	ND
Landfill 2	SB-LF2-11-141217-7-8	7-8	0.86	ND	0.060	ND	0.0006	ND	0.007	ND	0.0012	ND
Landfill 2	SB-LF2-11-141217-11-12	11-12	0.86	ND	0.054	ND	0.0005	ND	0.007	ND	0.0011	ND
Landfill 2	SB-LF2-17-150625-20-22	20-22	0.03	ND	0.0023	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-17B-150717-16-17	16-17	0.03	ND	0.0045	ND	0.0002	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-22-150625-20-22	20-22	0.03	ND	0.0022	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-24A-150914-16-17/ SB-LF2-24B-150914-16-17	16-17	0.03	ND	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-26B-150717-21-22	21-22	0.03	ND	0.0038	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-28B-150720-16-17	16-17	0.03	ND	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-30B-150720-11-12	11-12	0.03	ND	0.0033	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-32B-150720-16-17	16-17	0.03	ND	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-33-150625-3-4	3-4	0.03	ND	0.0031	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-33-150625-4-5	4-5	0.03	ND	0.0032	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-35B-150720-15-16	15-16	0.03	J	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-41-150624-4-5	4-5	0.03	ND	0.0024	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-41-150624-5-6	5-6	0.03	ND	0.0023	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-41A-150811-1-2	1-2	0.03	ND	0.0038	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-48A-150915-4-5	4-5	0.04	ND	0.0037	ND	0.0001	ND	0.002	ND	0.0002	ND

Location	Sample ID	Sample Depth (ft)	Cadmium (mg/kg)	Cadmium Qualifier	Chloropicrin (mg/kg)	Chloropicrin Qualifier	Ethylbenzene (mg/kg)	Ethylbenzene Qualifier	Total PCBs (mg/kg)	Total PCB Qualifier	Total Xylenes (mg/kg)	Total Xylenes Qualifier
Landfill 2	SB-LF2-50A-150810-0-2	0-2	0.03	ND	0.0033	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-51A-150811-0-2	0-2	0.03	ND	0.0034	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-54A-150811-0-2	0-2	0.03	ND	0.0051	ND	0.0002	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-55A-150915-3-4	3-4	0.03	ND	0.0032	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-56A-150810-0-2	0-2	0.03	ND	0.0037	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-57B-150810-7-8	7-8	0.03	ND	0.0031	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-58A-150810-5-7	5-7	0.03	ND	0.0033	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-59A-150810-5-6	5-6	0.03	ND	0.0042	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-60B-151104-4-5	4-5	0.03	ND	0.0047	ND	0.0002	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-64A-150827-5-6	5-6	0.03	ND	0.0028	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-65A-150915-5-7	5-7	0.03	ND	0.0029	ND	0.0001	ND	0.002	ND	0.0001	ND
Landfill 2	SB-LF2-67A-151104-2-3	2-3	0.03	ND	0.0042	ND	0.0001	ND	0.002	ND	0.0002	ND
Landfill 2	SB-LF2-68A-150917-0-1	0-1	0.03	ND	0.0069	ND	0.0002	ND	0.019	ND	0.0003	ND
Landfill 2	SB-LF2-69A-150917-10-12	10-12	0.04	ND	0.0046	ND	0.0002	ND	0.003	ND	0.0002	ND
Landfill 2	SB-LF2-70A-150917-0-1	0-1	0.03	ND	0.0041	ND	0.0001	ND	0.007	J	0.0002	ND
Landfill 2	SB-LF2-71A-151104-1-2	1-2	0.03	ND	0.0029	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-A1-150803-3-4	3-4	0.03	ND	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-A2-150803-3-4	3-4	0.03	ND	0.0025	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-A3-150804-2-3	2-3	0.06	J	0.0031	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-B1-150804-2-3	2-3	0.09	J	0.0023	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-B2-150805-2-3	2-3	0.03	ND	0.0026	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-B3-150805-2-3	2-3	0.03	ND	0.0028	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-B4-150825-2-3	2-3	0.03	ND	0.0046	ND	0.0002	ND	0.002	ND	0.0002	ND
Southerly Stream	TS-SS-C1-150804-2-3	2-3	0.14	J	0.0024	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-C2-150805-2-3	2-3	0.03	ND	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-C3-150805-1-3	1-3	0.03	ND	0.0031	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-D1-150804-2-3	2-3	0.11	J	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-D2-150806-2-3	2-3	0.13	J	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	0.23	J	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-E1-150804-1-3	1-3	0.10	J	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-E2-150806-2-3	2-3	0.12	J	0.0038	ND	0.0001	ND	0.002	ND	0.0002	ND
Southerly Stream	TS-SS-E3-150806-1-3	1-3	0.13	J	0.0030	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-F1-150804-2-3	2-3	0.16	J	0.0029	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-F2-150806-1-3	1-3	0.05	J	0.0026	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	0.08	J	0.0031	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-G1-150804-2-3	2-3	0.15	J	0.0023	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	0.05	J	0.0032	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-G3-150806-2-3	2-3	0.07	J	0.0028	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-H1-150804-1-3	1-3	0.14	J	0.0032	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-H2-150806-1-3	1-3	0.03	J	0.0027	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-H3-150806-2-3	2-3	0.03	ND	0.0036	ND	0.0001	ND	0.002	ND	0.0002	ND
Southerly Stream	TS-SS-I1A-150806-5-6	5-6	0.03	ND	0.0023	ND	0.0001	ND	0.002	ND	0.0001	ND
Southerly Stream	TS-SS-I2-150825-2-3	2-3	0.03	ND	0.0036	ND	0.0001	ND	0.002	ND	0.0002	ND
Southerly Stream	TS-SS-I3-150825-2-3	2-3	0.03	ND	0.0038	ND	0.0001	ND	0.002	ND	0.0002	ND

Notes:

Data are from the 2014 Pre-Design Investigation and 2015 Pre-Design Investigation.

-- indicates that the analyte was not measured for that particular analyte.

Sample IDs beginning with BD are blind duplicates corresponding to the sample interval directly above

Qualifiers:

- Blank cell indicates that there is no qualifier for the corresponding data
- J: the concentration is estimated
- ND: the compound was not detected above the detection limit shown in the results column

APPENDIX A-3

Landfill 2 and Southerly Stream – Pre-Design Total VOCs

DRAFT

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1,1,2-Tetrachloroethane	0.74	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1,1-Trichloroethane	0.74	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1,2,2-Tetrachloroethane	0.74	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethene	0.74	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,1-Dichloropropene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichlorobenzene	3.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichloropropane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2,4-Trichlorobenzene	3.70	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2,4-Trimethylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dibromo-3-chloropropane	3.70	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichlorobenzene	3.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethane	0.74	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, cis-	0.74	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,2-Dichloropropane	2.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3-Dichlorobenzene	2.40	J	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropane	3.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene	0.74	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, cis-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, trans-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,4-Dichloro-2-butene, trans-	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	1,4-Dichlorobenzene	0.58	J	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	2,2-Dichloropropane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	2-Butanone (MEK)	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	2-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	2-Hexanone (Methyl butyl ketone)	7.40	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	4-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Acetone	6.60	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Acrylonitrile	3.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Benzene	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Bromobenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Bromochloromethane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Bromodichloromethane	0.74	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Bromoform (Tribromomethane)	3.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Bromomethane (Methyl bromide)	1.50	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Carbon disulfide	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.74	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Chlorobenzene	0.74	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Chloroethane	1.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Chloroform	1.10	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Chloromethane	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Chloropicrin	74.00	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Dibromochloromethane	0.74	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Dibromomethane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Dichlorodifluoromethane	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Dichloromethane (Methylene chloride)	7.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Ethylbenzene	0.74	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	3.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.70	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Isopropylbenzene (Cumene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	m,p-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Methyl tert-butyl ether (MTBE)	1.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Naphthalene	3.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	n-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	n-Propylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	o-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	sec-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Styrene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	tert-Butylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Tetrachloroethene (PCE)	0.74	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Tetrahydrofuran	15.00	ND	ug/kg		
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Total Xylene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Trichloroethene (TCE)	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Vinyl acetate	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-01-141218-3-4	3 - 4	12/18/2014	Vinyl chloride	1.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1,1,2-Tetrachloroethane	0.74	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1,1-Trichloroethane	0.74	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1,2,2-Tetrachloroethane	0.74	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethene	0.74	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,1-Dichloropropene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichlorobenzene	3.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichloropropane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2,4-Trichlorobenzene	3.70	ND	ug/kg	490,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2,4-Trimethylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dibromo-3-chloropropane	3.70	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichlorobenzene	3.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethane	0.74	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, cis-	0.74	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,2-Dichloropropane	2.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3-Dichlorobenzene	3.70	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropane	3.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene	0.74	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, cis-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, trans-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,4-Dichloro-2-butene, trans-	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	1,4-Dichlorobenzene	3.70	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	2,2-Dichloropropane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	2-Butanone (MEK)	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	2-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	2-Hexanone (Methyl butyl ketone)	7.40	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	4-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Acetone	27.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Acrolein	19.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Acrylonitrile	3.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Benzene	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Bromobenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Bromochloromethane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Bromodichloromethane	0.74	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Bromoform (Tribromomethane)	3.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Bromomethane (Methyl bromide)	1.50	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Carbon disulfide	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.74	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Chlorobenzene	0.74	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Chloroethane	1.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Chloroform	1.10	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Chloromethane	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Chloropicrin	74.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Dibromochloromethane	0.74	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Dibromomethane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Dichlorodifluoromethane	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Dichloromethane (Methylene chloride)	7.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Ethylbenzene	0.74	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	3.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.70	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Isopropylbenzene (Cumene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	m,p-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Methyl tert-butyl ether (MTBE)	1.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Naphthalene	3.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	n-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	n-Propylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	o-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	sec-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Styrene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	tert-Butylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Tetrachloroethene (PCE)	0.74	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Tetrahydrofuran	15.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Total Xylene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Trichloroethene (TCE)	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Vinyl acetate	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-3-4	3 - 4	12/18/2014	Vinyl chloride	1.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1,1,2-Tetrachloroethane	0.57	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1,1-Trichloroethane	0.57	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1,2,2-Tetrachloroethane	0.57	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1,2-Trichloroethane	0.86	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethane	0.86	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethene	0.57	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,1-Dichloropropene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichlorobenzene	2.80	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichloropropane	5.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2,4-Trichlorobenzene	1.20	J	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2,4-Trimethylbenzene	0.12	J	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dibromo-3-chloropropane	2.80	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichlorobenzene	2.80	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethane	0.57	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, cis-	0.57	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, trans-	0.86	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,2-Dichloropropane	2.00	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	0.25	J	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3-Dichlorobenzene	1.00	J	ug/kg	34,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropane	2.80	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene	0.57	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, cis-	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, trans-	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,4-Dichloro-2-butene, trans-	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	1,4-Dichlorobenzene	2.80	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	2,2-Dichloropropane	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	2-Butanone (MEK)	5.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	2-Chlorotoluene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	2-Hexanone (Methyl butyl ketone)	5.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	4-Chlorotoluene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Acetone	29.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Acrolein	14.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Acrylonitrile	2.30	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Benzene	0.57	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Bromobenzene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Bromochloromethane	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Bromodichloromethane	0.57	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Bromoform (Tribromomethane)	2.30	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Bromomethane (Methyl bromide)	1.10	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Carbon disulfide	1.90	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.45	J	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Chlorobenzene	0.57	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Chloroethane	1.10	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Chloroform	3.00		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Chloromethane	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Chloropicrin	57.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Dibromochloromethane	0.57	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Dibromomethane	5.70	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Dichlorodifluoromethane	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Dichloromethane (Methylene chloride)	5.70	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Ethylbenzene	0.57	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.30	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.80	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Isopropylbenzene (Cumene)	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	m,p-Xylene	0.25	J	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Methyl tert-butyl ether (MTBE)	1.10	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Naphthalene	2.80	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	n-Butylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	n-Propylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	o-Xylene	0.15	J	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	sec-Butylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Styrene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	tert-Butylbenzene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Tetrachloroethene (PCE)	0.24	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Tetrahydrofuran	11.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Toluene	0.86	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Total Xylene	0.40	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Trichloroethene (TCE)	0.57	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Vinyl acetate	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-7-8	7 - 8	12/18/2014	Vinyl chloride	1.10	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1,1,2-Tetrachloroethane	0.50	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1,1-Trichloroethane	0.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1,2,2-Tetrachloroethane	0.50	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1,2-Trichloroethane	0.75	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1-Dichloroethane	0.75	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1-Dichloroethene	0.50	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,1-Dichloropropene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2,3-Trichlorobenzene	2.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2,3-Trichloropropane	5.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2,4-Trichlorobenzene	2.50	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2,4-Trimethylbenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dibromo-3-chloropropane	2.50	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichlorobenzene	2.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethane	0.50	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene, cis-	0.50	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene, trans-	0.75	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,2-Dichloropropane	1.80	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3-Dichlorobenzene	2.50	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropane	2.50	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene	0.50	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene, cis-	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene, trans-	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,4-Dichloro-2-butene, trans-	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	1,4-Dichlorobenzene	2.50	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	2,2-Dichloropropane	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	2-Butanone (MEK)	1.30	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	2-Chlorotoluene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	2-Hexanone (Methyl butyl ketone)	5.00	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	4-Chlorotoluene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Acetone	18.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Acrolein	12.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Acrylonitrile	2.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Benzene	0.50	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Bromobenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Bromochloromethane	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Bromodichloromethane	0.50	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Bromoform (Tribromomethane)	2.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Bromomethane (Methyl bromide)	1.00	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Carbon disulfide	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.50	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Chlorobenzene	0.50	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Chloroethane	1.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Chloroform	0.75	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Chloromethane	2.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Chloropicrin	50.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Dibromochloromethane	0.50	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Dibromomethane	5.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Dichlorodifluoromethane	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Dichloromethane (Methylene chloride)	5.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Ethylbenzene	0.50	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.50	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Isopropylbenzene (Cumene)	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	m,p-Xylene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Methyl tert-butyl ether (MTBE)	1.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Naphthalene	2.50	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	n-Butylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	n-Propylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	o-Xylene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	sec-Butylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Styrene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	tert-Butylbenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Tetrachloroethene (PCE)	0.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Tetrahydrofuran	10.00	ND	ug/kg		
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Toluene	0.75	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Total Xylene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Trichloroethene (TCE)	0.50	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Vinyl acetate	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-02-141218-11-12	11 - 12	12/18/2014	Vinyl chloride	1.00	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1,1,2-Tetrachloroethane	0.64	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1,1-Trichloroethane	0.64	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1,2,2-Tetrachloroethane	0.64	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1,2-Trichloroethane	0.95	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethane	0.95	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethene	0.64	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichloropropane	6.40	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2,4-Trichlorobenzene	0.45	J	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethane	0.64	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene	0.70		ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, cis-	0.70		ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, trans-	0.95	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,2-Dichloropropane	2.20	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene	0.64	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, cis-	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, trans-	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	1,4-Dichlorobenzene	3.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	2-Butanone (MEK)	7.30		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	2-Hexanone (Methyl butyl ketone)	6.40	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Acetone	41.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Acrylonitrile	2.50	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Benzene	0.14	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Bromodichloromethane	0.64	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Bromoform (Tribromomethane)	2.50	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Carbon disulfide	6.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.62	J	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Chlorobenzene	0.64	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Chloroform	1.50		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Chloropicrin	64.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Dibromochloromethane	0.64	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Dibromomethane	6.40	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Dichlorodifluoromethane	6.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Dichloromethane (Methylene chloride)	6.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Ethylbenzene	0.21	J	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.50	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Isopropylbenzene (Cumene)	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	m,p-Xylene	2.00		ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	n-Butylbenzene	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	n-Propylbenzene	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	o-Xylene	0.86	J	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	sec-Butylbenzene	0.64	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	tert-Butylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Tetrachloroethene (PCE)	0.23	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Toluene	0.18	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Total Xylene	2.90	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Trichloroethene (TCE)	0.55	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Vinyl acetate	6.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-3-4	3 - 4	12/18/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1,1,2-Tetrachloroethane	0.71	ND	ug/kg	550,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1,1-Trichloroethane	0.71	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1,2,2-Tetrachloroethane	0.71	ND	ug/kg	71,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1-Dichloroethene	0.71	ND	ug/kg	8,500,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,1-Dichloropropene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2,3-Trichlorobenzene	3.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2,3-Trichloropropane	7.10	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2,4-Trichlorobenzene	0.58	J	ug/kg	490,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2,4-Trimethylbenzene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dibromo-3-chloropropane	3.50	ND	ug/kg	3,200	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichlorobenzene	3.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichloroethane	0.71	ND	ug/kg	160,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichloroethene	0.66	J	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichloroethene, cis-	0.66	J	ug/kg	340,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,2-Dichloropropane	2.50	ND	ug/kg	390,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3-Dichlorobenzene	3.50	ND	ug/kg	34,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3-Dichloropropane	3.50	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3-Dichloropropene	0.71	ND	ug/kg	140,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3-Dichloropropene, cis-	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,3-Dichloropropene, trans-	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,4-Dichloro-2-butene, trans-	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	1,4-Dichlorobenzene	3.50	ND	ug/kg	2,600,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	2,2-Dichloropropane	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	2-Butanone (MEK)	6.80	J	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	2-Chlorotoluene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	2-Hexanone (Methyl butyl ketone)	7.10	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	4-Chlorotoluene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Acetone	38.00		ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Acrylonitrile	2.80	ND	ug/kg	26,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Benzene	0.22	J	ug/kg	85,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Bromobenzene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Bromochloromethane	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Bromodichloromethane	0.71	ND	ug/kg	230,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Bromoform (Tribromomethane)	2.80	ND	ug/kg	1,400,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Bromomethane (Methyl bromide)	1.40	ND	ug/kg	240,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Carbon disulfide	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.19	J	ug/kg	200,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Chlorobenzene	0.71	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Chloroethane	1.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Chloroform	2.30		ug/kg	460,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Chloromethane	3.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Chloropicrin	71.00	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Dibromochloromethane	0.71	ND	ug/kg	170,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Dibromomethane	7.10	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Dichlorodifluoromethane	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Dichloromethane (Methylene chloride)	7.10	ND	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Ethylbenzene	0.33	J	ug/kg	1,300,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.80	ND	ug/kg	7,100	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.50	ND	ug/kg	130,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Isopropylbenzene (Cumene)	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	m,p-Xylene	2.00		ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Methyl tert-butyl ether (MTBE)	1.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Naphthalene	0.21	J	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	n-Butylbenzene	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	n-Propylbenzene	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	o-Xylene	0.96	J	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	sec-Butylbenzene	0.71	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Styrene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	tert-Butylbenzene	3.50	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Tetrachloroethene (PCE)	0.36	J	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Tetrahydrofuran	14.00	ND	ug/kg		
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Total Xylene	3.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Trichloroethene (TCE)	0.74		ug/kg	85,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Vinyl acetate	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412180906	3 - 4	12/18/2014	Vinyl chloride	1.40	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1,1,2-Tetrachloroethane	1.00	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1,1-Trichloroethane	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1,2,2-Tetrachloroethane	1.00	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1,2-Trichloroethane	1.60	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1-Dichloroethane	1.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1-Dichloroethene	1.00	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,1-Dichloropropene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2,3-Trichlorobenzene	5.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2,3-Trichloropropane	10.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2,4-Trichlorobenzene	0.33	J	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2,4-Trimethylbenzene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dibromo-3-chloropropane	5.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichlorobenzene	5.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichloroethane	1.00	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichloroethene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichloroethene, cis-	1.00	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichloroethene, trans-	1.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,2-Dichloropropane	3.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3-Dichlorobenzene	5.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3-Dichloropropane	5.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3-Dichloropropene	1.00	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3-Dichloropropene, cis-	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,3-Dichloropropene, trans-	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,4-Dichloro-2-butene, trans-	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	1,4-Dichlorobenzene	5.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	2,2-Dichloropropane	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	2-Butanone (MEK)	4.50	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	2-Chlorotoluene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	2-Hexanone (Methyl butyl ketone)	10.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	4-Chlorotoluene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Acetone	29.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Acrolein	26.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Acrylonitrile	4.10	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Benzene	1.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Bromobenzene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Bromochloromethane	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Bromodichloromethane	1.00	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Bromoform (Tribromomethane)	4.10	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Bromomethane (Methyl bromide)	2.10	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Carbon disulfide	10.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.72	J	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Chlorobenzene	1.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Chloroethane	2.10	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Chloroform	1.40	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Chloromethane	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Chloropicrin	100.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Cymene, p- (4-Isopropyltoluene)	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Dibromochloromethane	1.00	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Dibromomethane	10.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Dichlorodifluoromethane	10.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Dichloromethane (Methylene chloride)	10.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Ethylbenzene	1.00	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	4.10	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	5.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Isopropylbenzene (Cumene)	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	m,p-Xylene	0.28	J	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	10.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Methyl tert-butyl ether (MTBE)	2.10	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Naphthalene	5.20	ND	ug/kg	2,500,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	n-Butylbenzene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	n-Propylbenzene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	o-Xylene	2.10	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	sec-Butylbenzene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Styrene	2.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	tert-Butylbenzene	5.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Tetrachloroethene (PCE)	0.34	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Tetrahydrofuran	21.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Toluene	1.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Total Xylene	0.28	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Trichloroethene (TCE)	1.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Vinyl acetate	10.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-5-6	5 - 6	12/18/2014	Vinyl chloride	2.10	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1,1,2-Tetrachloroethane	0.72	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1,1-Trichloroethane	0.72	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1,2,2-Tetrachloroethane	0.72	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1-Dichloroethene	0.72	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,1-Dichloropropene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2,3-Trichlorobenzene	3.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2,3-Trichloropropane	7.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2,4-Trichlorobenzene	3.60	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2,4-Trimethylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dibromo-3-chloropropane	3.60	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichlorobenzene	3.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichloroethane	0.72	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichloroethene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichloroethene, cis-	0.72	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,2-Dichloropropane	2.50	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3-Dichlorobenzene	3.60	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3-Dichloropropane	3.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3-Dichloropropene	0.72	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3-Dichloropropene, cis-	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,3-Dichloropropene, trans-	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,4-Dichloro-2-butene, trans-	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	1,4-Dichlorobenzene	3.60	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	2,2-Dichloropropane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	2-Butanone (MEK)	2.80	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	2-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	2-Hexanone (Methyl butyl ketone)	7.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	4-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Acetone	23.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Acrylonitrile	2.90	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Benzene	0.72	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Bromobenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Bromochloromethane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Bromodichloromethane	0.72	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Bromoform (Tribromomethane)	2.90	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Bromomethane (Methyl bromide)	1.40	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Carbon disulfide	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.72	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Chlorobenzene	0.72	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Chloroethane	1.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Chloroform	1.10	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Chloromethane	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Chloropicrin	72.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Dibromochloromethane	0.72	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Dibromomethane	7.20	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Dichlorodifluoromethane	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Dichloromethane (Methylene chloride)	7.20	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Ethylbenzene	0.72	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.90	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.60	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Isopropylbenzene (Cumene)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	m,p-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Methyl tert-butyl ether (MTBE)	0.98	J	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Naphthalene	3.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	n-Butylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	n-Propylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	o-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	sec-Butylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Styrene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	tert-Butylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Tetrachloroethene (PCE)	0.72	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Tetrahydrofuran	14.00	ND	ug/kg		
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Toluene	0.15	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Total Xylene	1.40	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Trichloroethene (TCE)	0.72	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Vinyl acetate	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-03-141218-9-10	9 - 10	12/18/2014	Vinyl chloride	1.40	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1,1,2-Tetrachloroethane	0.52	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1,1-Trichloroethane	0.52	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1,2,2-Tetrachloroethane	0.52	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1,2-Trichloroethane	0.78	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethane	0.78	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1-Dichloroethene	0.52	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,1-Dichloropropene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichlorobenzene	2.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2,3-Trichloropropane	5.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2,4-Trichlorobenzene	2.60	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2,4-Trimethylbenzene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dibromo-3-chloropropane	2.60	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichlorobenzene	2.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethane	0.52	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, cis-	0.52	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichloroethene, trans-	0.78	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,2-Dichloropropane	1.80	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3-Dichlorobenzene	2.60	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropane	2.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene	0.52	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, cis-	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,3-Dichloropropene, trans-	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,4-Dichloro-2-butene, trans-	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	1,4-Dichlorobenzene	2.60	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	2,2-Dichloropropane	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	2-Butanone (MEK)	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	2-Chlorotoluene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	2-Hexanone (Methyl butyl ketone)	5.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	4-Chlorotoluene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Acetone	19.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Acrolein	13.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Acrylonitrile	2.10	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Benzene	0.52	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Bromobenzene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Bromochloromethane	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Bromodichloromethane	0.52	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Bromoform (Tribromomethane)	2.10	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Bromomethane (Methyl bromide)	1.00	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Carbon disulfide	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.52	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Chlorobenzene	0.52	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Chloroethane	1.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Chloroform	0.78	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Chloromethane	2.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Chloropicrin	52.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Dibromochloromethane	0.52	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Dibromomethane	5.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Dichlorodifluoromethane	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Dichloromethane (Methylene chloride)	5.20	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Ethylbenzene	0.52	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.10	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.60	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Isopropylbenzene (Cumene)	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	m,p-Xylene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Methyl tert-butyl ether (MTBE)	1.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Naphthalene	2.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	n-Butylbenzene	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	n-Propylbenzene	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	o-Xylene	1.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	sec-Butylbenzene	0.52	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Styrene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	tert-Butylbenzene	2.60	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Tetrachloroethene (PCE)	0.52	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Tetrahydrofuran	10.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Toluene	0.78	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Total Xylene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Trichloroethene (TCE)	0.52	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Vinyl acetate	5.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-3-4	3 - 4	12/18/2014	Vinyl chloride	1.00	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1,1,2-Tetrachloroethane	0.74	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1,1-Trichloroethane	0.74	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1,2,2-Tetrachloroethane	0.74	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethene	0.74	ND	ug/kg	8,500,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,1-Dichloropropene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichlorobenzene	3.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichloropropane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2,4-Trichlorobenzene	1.00	J	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2,4-Trimethylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dibromo-3-chloropropane	3.70	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichlorobenzene	3.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethane	0.74	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, cis-	0.74	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,2-Dichloropropane	2.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3-Dichlorobenzene	3.70	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropane	3.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene	0.74	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, cis-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, trans-	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,4-Dichloro-2-butene, trans-	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	1,4-Dichlorobenzene	3.70	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	2,2-Dichloropropane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	2-Butanone (MEK)	4.70	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	2-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	2-Hexanone (Methyl butyl ketone)	7.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	4-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Acetone	21.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Acrolein	19.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Acrylonitrile	3.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Benzene	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Bromobenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Bromochloromethane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Bromodichloromethane	0.74	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Bromoform (Tribromomethane)	3.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Bromomethane (Methyl bromide)	1.50	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Carbon disulfide	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.74	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Chlorobenzene	0.74	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Chloroethane	1.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Chloroform	0.62	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Chloromethane	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Chloropicrin	74.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Dibromochloromethane	0.74	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Dibromomethane	7.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Dichlorodifluoromethane	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Dichloromethane (Methylene chloride)	7.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Ethylbenzene	0.74	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	3.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.70	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Isopropylbenzene (Cumene)	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	m,p-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Methyl tert-butyl ether (MTBE)	1.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Naphthalene	3.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	n-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	n-Propylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	o-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	sec-Butylbenzene	0.74	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Styrene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	tert-Butylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Tetrachloroethene (PCE)	0.74	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Tetrahydrofuran	15.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Total Xylene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Trichloroethene (TCE)	0.74	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Vinyl acetate	7.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-7-8	7 - 8	12/18/2014	Vinyl chloride	1.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1,1,2-Tetrachloroethane	0.65	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1,1-Trichloroethane	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1,2,2-Tetrachloroethane	0.65	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1,2-Trichloroethane	0.97	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1-Dichloroethane	0.97	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1-Dichloroethene	0.65	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2,3-Trichloropropane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2,4-Trichlorobenzene	3.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichloroethane	0.65	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichloroethene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichloroethene, cis-	0.65	ND	ug/kg	340,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichloroethene, trans-	0.97	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,2-Dichloropropane	2.30	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3-Dichloropropene	0.65	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3-Dichloropropene, cis-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,3-Dichloropropene, trans-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	1,4-Dichlorobenzene	0.16	J	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	2-Butanone (MEK)	1.60	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	2-Hexanone (Methyl butyl ketone)	6.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Acetone	24.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Acrylonitrile	2.60	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Benzene	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Bromodichloromethane	0.65	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Bromoform (Tribromomethane)	2.60	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Carbon disulfide	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.65	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Chlorobenzene	0.65	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Chloroform	0.97	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Chloropicrin	65.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Dibromochloromethane	0.65	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Dibromomethane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Dichlorodifluoromethane	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Dichloromethane (Methylene chloride)	6.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Ethylbenzene	0.65	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.60	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Isopropylbenzene (Cumene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	m,p-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	n-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	n-Propylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	sec-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	tert-Butylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Tetrachloroethene (PCE)	0.65	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Toluene	0.97	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Total Xylene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Trichloroethene (TCE)	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Vinyl acetate	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-10-12	10 - 12	12/18/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1,1,2-Tetrachloroethane	0.50	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1,1-Trichloroethane	0.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1,2,2-Tetrachloroethane	0.50	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1,2-Trichloroethane	0.74	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1-Dichloroethane	0.74	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1-Dichloroethene	0.50	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,1-Dichloropropene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2,3-Trichlorobenzene	2.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2,3-Trichloropropane	5.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2,4-Trichlorobenzene	2.50	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2,4-Trimethylbenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dibromo-3-chloropropane	2.50	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichlorobenzene	2.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichloroethane	0.50	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichloroethene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichloroethene, cis-	0.50	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichloroethene, trans-	0.74	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,2-Dichloropropane	1.70	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3-Dichlorobenzene	2.50	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3-Dichloropropane	2.50	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3-Dichloropropene	0.50	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3-Dichloropropene, cis-	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,3-Dichloropropene, trans-	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,4-Dichloro-2-butene, trans-	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	1,4-Dichlorobenzene	0.11	J	ug/kg	2,600,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	2,2-Dichloropropane	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	2-Butanone (MEK)	1.20	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	2-Chlorotoluene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	2-Hexanone (Methyl butyl ketone)	5.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	4-Chlorotoluene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Acetone	6.10	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Acrolein	12.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Acrylonitrile	2.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Benzene	0.50	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Bromobenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Bromochloromethane	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Bromodichloromethane	0.50	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Bromoform (Tribromomethane)	2.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Bromomethane (Methyl bromide)	0.99	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Carbon disulfide	2.60	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.50	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Chlorobenzene	0.50	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Chloroethane	0.99	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Chloroform	0.23	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Chloromethane	0.14	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Chloropicrin	50.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Cymene, p- (4-Isopropyltoluene)	1.30		ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Dibromochloromethane	0.50	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Dibromomethane	5.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Dichlorodifluoromethane	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Dichloromethane (Methylene chloride)	5.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Ethylbenzene	0.50	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.50	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Isopropylbenzene (Cumene)	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	m,p-Xylene	0.99	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Methyl tert-butyl ether (MTBE)	0.99	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Naphthalene	2.50	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	n-Butylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	n-Propylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	o-Xylene	0.99	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	sec-Butylbenzene	0.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Styrene	0.99	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	tert-Butylbenzene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Tetrachloroethene (PCE)	0.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Tetrahydrofuran	9.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Toluene	0.19	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Total Xylene	0.99	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Trichloroethene (TCE)	0.50	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Vinyl acetate	5.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-15-17	15 - 17	12/18/2014	Vinyl chloride	0.99	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1,1,2-Tetrachloroethane	1.40	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1,1-Trichloroethane	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1,2,2-Tetrachloroethane	1.40	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1,2-Trichloroethane	2.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1-Dichloroethane	2.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1-Dichloroethene	1.40	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,1-Dichloropropene	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2,3-Trichlorobenzene	6.90	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2,3-Trichloropropane	14.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2,4-Trichlorobenzene	6.90	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2,4-Trimethylbenzene	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dibromo-3-chloropropane	6.90	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichlorobenzene	6.90	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichloroethane	1.40	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichloroethene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichloroethene, cis-	1.40	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichloroethene, trans-	2.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,2-Dichloropropane	4.80	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3-Dichlorobenzene	6.90	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3-Dichloropropane	6.90	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3-Dichloropropene	1.40	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3-Dichloropropene, cis-	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,3-Dichloropropene, trans-	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,4-Dichloro-2-butene, trans-	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	1,4-Dichlorobenzene	6.90	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	2,2-Dichloropropane	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	2-Butanone (MEK)	14.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	2-Chlorotoluene	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	2-Hexanone (Methyl butyl ketone)	14.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	4-Chlorotoluene	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Acetone	50.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Acrolein	35.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Acrylonitrile	5.50	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Benzene	1.40	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Bromobenzene	6.90	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Bromochloromethane	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Bromodichloromethane	1.40	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Bromoform (Tribromomethane)	5.50	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Bromomethane (Methyl bromide)	2.80	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Carbon disulfide	14.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	1.40	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Chlorobenzene	1.40	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Chloroethane	2.80	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Chloroform	0.59	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Chloromethane	6.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Chloropicrin	140.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Cymene, p- (4-Isopropyltoluene)	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Dibromochloromethane	1.40	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Dibromomethane	14.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Dichlorodifluoromethane	14.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Dichloromethane (Methylene chloride)	14.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Ethylbenzene	1.40	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	5.50	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	6.90	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Isopropylbenzene (Cumene)	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	m,p-Xylene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	14.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Methyl tert-butyl ether (MTBE)	2.80	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Naphthalene	6.90	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	n-Butylbenzene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	n-Propylbenzene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	o-Xylene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	sec-Butylbenzene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Styrene	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	tert-Butylbenzene	6.90	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Tetrachloroethene (PCE)	1.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Tetrahydrofuran	28.00	ND	ug/kg		
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Toluene	2.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Total Xylene	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Trichloroethene (TCE)	1.40	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	6.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Vinyl acetate	14.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-04-141218-19-20	19 - 20	12/18/2014	Vinyl chloride	2.80	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1,1,2-Tetrachloroethane	0.65	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1,1-Trichloroethane	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1,2,2-Tetrachloroethane	0.65	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1,2-Trichloroethane	0.98	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1-Dichloroethane	0.98	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1-Dichloroethene	0.65	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2,3-Trichloropropane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2,4-Trichlorobenzene	3.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichloroethane	0.65	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichloroethene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichloroethene, cis-	0.65	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichloroethene, trans-	0.98	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,2-Dichloropropane	2.30	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3-Dichloropropene	0.65	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3-Dichloropropene, cis-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,3-Dichloropropene, trans-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	1,4-Dichlorobenzene	3.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	2-Butanone (MEK)	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	2-Hexanone (Methyl butyl ketone)	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Acetone	23.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Acrylonitrile	2.60	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Benzene	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Bromodichloromethane	0.65	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Bromoform (Tribromomethane)	2.60	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Carbon disulfide	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.65	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Chlorobenzene	0.65	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Chloroform	0.98	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Chloropicrin	65.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Dibromochloromethane	0.65	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Dibromomethane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Dichlorodifluoromethane	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Dichloromethane (Methylene chloride)	6.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Ethylbenzene	0.65	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.60	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Isopropylbenzene (Cumene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	m,p-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	n-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	n-Propylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	sec-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	tert-Butylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Tetrachloroethene (PCE)	0.65	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Toluene	0.98	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Total Xylene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Trichloroethene (TCE)	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Vinyl acetate	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-3-5	3 - 5	12/18/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1,1,2-Tetrachloroethane	0.65	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1,1-Trichloroethane	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1,2,2-Tetrachloroethane	0.65	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1,2-Trichloroethane	0.98	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethane	0.98	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1-Dichloroethene	0.65	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2,3-Trichloropropane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2,4-Trichlorobenzene	3.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethane	0.65	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, cis-	0.65	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichloroethene, trans-	0.98	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,2-Dichloropropane	2.30	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene	0.65	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, cis-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,3-Dichloropropene, trans-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	1,4-Dichlorobenzene	3.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	2-Butanone (MEK)	1.60	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	2-Hexanone (Methyl butyl ketone)	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Acetone	9.90	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Acrylonitrile	2.60	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Benzene	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Bromodichloromethane	0.65	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Bromoform (Tribromomethane)	2.60	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Carbon disulfide	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.65	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Chlorobenzene	0.65	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Chloroform	0.52	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Chloropicrin	65.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Dibromochloromethane	0.65	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Dibromomethane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Dichlorodifluoromethane	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Dichloromethane (Methylene chloride)	6.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Ethylbenzene	0.65	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.60	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Isopropylbenzene (Cumene)	0.65	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	m,p-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	n-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	n-Propylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	sec-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	tert-Butylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Tetrachloroethene (PCE)	0.15	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Toluene	0.98	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Total Xylene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Trichloroethene (TCE)	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Vinyl acetate	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-7-8	7 - 8	12/18/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1,1,2-Tetrachloroethane	0.63	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1,1-Trichloroethane	0.63	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1,2,2-Tetrachloroethane	0.63	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1,2-Trichloroethane	0.95	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1-Dichloroethane	0.95	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1-Dichloroethene	0.63	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2,3-Trichloropropane	6.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2,4-Trichlorobenzene	3.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethane	0.63	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene	0.24	J	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene, cis-	0.24	J	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichloroethene, trans-	0.95	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,2-Dichloropropane	2.20	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene	0.63	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene, cis-	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,3-Dichloropropene, trans-	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	1,4-Dichlorobenzene	3.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	2-Butanone (MEK)	3.80	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	2-Hexanone (Methyl butyl ketone)	6.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Acetone	37.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Acrylonitrile	2.50	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Benzene	0.63	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Bromodichloromethane	0.63	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Bromoform (Tribromomethane)	2.50	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Carbon disulfide	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Carbon tetrachloride (Tetrachloromethane)	0.63	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Chlorobenzene	0.63	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Chloroform	0.95	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Chloropicrin	63.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Cymene, p- (4-Isopropyltoluene)	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Dibromochloromethane	0.63	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Dibromomethane	6.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Dichlorodifluoromethane	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Dichloromethane (Methylene chloride)	6.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Ethylbenzene	0.63	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Ethylene dibromide (1,2-Dibromoethane)	2.50	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Isopropylbenzene (Cumene)	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	m,p-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	n-Butylbenzene	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	n-Propylbenzene	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	sec-Butylbenzene	0.63	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	tert-Butylbenzene	3.20	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Tetrachloroethene (PCE)	0.63	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Toluene	0.95	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Total Xylene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Trichloroethene (TCE)	0.63	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Vinyl acetate	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-05-141218-11-12	11 - 12	12/18/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.67	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.67	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.67	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	1.00	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	1.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.67	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	3.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	6.70	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	3.40	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	3.40	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	3.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.67	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.67	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	1.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	2.40	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	3.40	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	3.40	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.67	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	3.40	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	6.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	6.70	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Acetone	24.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Acrolein	17.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	2.70	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Benzene	0.67	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Bromobenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.67	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	2.70	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	6.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.67	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.67	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Chloroform	1.00	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Chloromethane	3.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Chloropicrin	67.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.67	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Dibromomethane	6.70	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	6.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	6.70	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.67	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.70	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.40	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Naphthalene	3.40	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.67	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	0.51	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Toluene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Total Xylene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	0.67	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	6.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.83	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	82.00	ND	ug/kg	550,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.83	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	82.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.83	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	82.00	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	1.20	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	120.00	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	1.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	120.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.83	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	82.00	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	4.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	410.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	8.30	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	820.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	4.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	410.00	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	4.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	410.00	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	4.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	410.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.83	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	82.00	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.83	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	82.00	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	1.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	120.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	2.90	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	290.00	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	0.40	J	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	4.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	410.00	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	4.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	410.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.83	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.83	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	4.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	17.00	J	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	26.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	820.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	8.30	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	820.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acetone	130.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acetone	3000.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acrolein	21.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acrolein	2000.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	3.30	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	330.00	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Benzene	0.50	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Benzene	82.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromobenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromobenzene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.83	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	82.00	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	3.30	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	330.00	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.70	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	160.00	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	8.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	820.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.83	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	82.00	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.83	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	82.00	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloroethane	1.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloroethane	160.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloroform	1.20	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloroform	120.00	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloromethane	4.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloromethane	410.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloropicrin	83.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Chloropicrin	8200.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	4600.00		ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.83	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	82.00	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dibromomethane	8.30	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dibromomethane	820.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	8.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	820.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	8.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	820.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	6.60		ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	33.00	J	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	3.30	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	330.00	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	410.00	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.19	J	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	0.32	J	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	160.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	8.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	820.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	160.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Naphthalene	0.26	J	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Naphthalene	410.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	o-Xylene	1.70	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	o-Xylene	160.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.83	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	82.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Styrene	1.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Styrene	160.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	410.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.83	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	82.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	17.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	1600.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Toluene	24.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Toluene	97.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Total Xylene	0.32	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Total Xylene	1.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.83	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	82.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	4.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	410.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	8.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	820.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	1.70	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-06-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	160.00	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1,1,2-Tetrachloroethane	0.68	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1,1-Trichloroethane	0.68	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1,2,2-Tetrachloroethane	0.68	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1,2-Trichloroethane	1.00	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethane	1.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethene	0.68	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,1-Dichloropropene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichlorobenzene	3.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichloropropane	6.80	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2,4-Trichlorobenzene	3.40	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2,4-Trimethylbenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dibromo-3-chloropropane	3.40	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichlorobenzene	3.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethane	0.68	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, cis-	0.68	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, trans-	1.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,2-Dichloropropane	2.40	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3-Dichlorobenzene	3.40	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropane	3.40	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene	0.68	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, cis-	0.68	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, trans-	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,4-Dichloro-2-butene, trans-	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	1,4-Dichlorobenzene	3.40	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	2,2-Dichloropropane	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	2-Butanone (MEK)	1.80	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	2-Chlorotoluene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	2-Hexanone (Methyl butyl ketone)	6.80	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	4-Chlorotoluene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Acetone	22.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Acrolein	17.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Acrylonitrile	2.70	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Benzene	0.68	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Bromobenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Bromochloromethane	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Bromodichloromethane	0.68	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Bromoform (Tribromomethane)	2.70	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Bromomethane (Methyl bromide)	1.40	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Carbon disulfide	6.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.68	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Chlorobenzene	0.68	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Chloroethane	1.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Chloroform	1.00	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Chloromethane	3.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Chloropicrin	68.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.71		ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Dibromochloromethane	0.68	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Dibromomethane	6.80	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Dichlorodifluoromethane	6.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Dichloromethane (Methylene chloride)	6.80	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Ethylbenzene	0.68	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.70	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.40	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Isopropylbenzene (Cumene)	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	m,p-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Methyl tert-butyl ether (MTBE)	1.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Naphthalene	3.40	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	n-Butylbenzene	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	n-Propylbenzene	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	o-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	sec-Butylbenzene	0.68	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Styrene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	tert-Butylbenzene	3.40	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Tetrachloroethene (PCE)	0.68	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Tetrahydrofuran	14.00	ND	ug/kg		
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Toluene	1.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Total Xylene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Trichloroethene (TCE)	0.68	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	0.61	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Vinyl acetate	6.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-06-141217-11-12	11 - 12	12/17/2014	Vinyl chloride	1.40	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.65	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.65	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	0.97	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	0.97	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.65	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	3.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	3.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	3.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	3.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.65	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.17	J	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.17	J	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	0.97	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	2.30	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	3.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	3.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.65	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	3.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	6.50	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Acetone	23.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Acrolein	16.00	ND	ug/kg	85,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	2.60	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Benzene	0.65	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Bromobenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.65	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	2.60	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.30	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.49	J	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.65	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Chloroform	2.40		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Chloromethane	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Chloropicrin	65.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.65	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Dibromomethane	6.50	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	6.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.65	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.60	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	0.16	J	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Naphthalene	3.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.65	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Styrene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	3.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	1.10		ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	13.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Toluene	0.97	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Total Xylene	0.16	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	1.30		ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	6.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.30	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.44	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.44	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.44	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	0.67	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	0.67	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.44	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	2.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	4.40	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	2.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	2.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	2.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.44	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.44	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	0.67	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	1.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	2.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	2.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.44	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	2.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	4.40	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Acetone	16.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Acrolein	11.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	1.80	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Benzene	0.44	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Bromobenzene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.44	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	1.80	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	0.89	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.44	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.44	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Chloroethane	0.89	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Chloroform	0.96		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Chloromethane	2.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Chloropicrin	44.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.44	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Dibromomethane	4.40	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	4.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	0.44	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	1.80	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	0.89	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Naphthalene	2.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	o-Xylene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.44	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Styrene	0.89	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	2.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.50		ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	8.90	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Toluene	0.67	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Total Xylene	0.89	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.25	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	0.89	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1,1,2-Tetrachloroethane	0.60	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1,1-Trichloroethane	0.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1,2,2-Tetrachloroethane	0.60	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1,2-Trichloroethane	0.90	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethane	0.90	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethene	0.60	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,1-Dichloropropene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichlorobenzene	3.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichloropropane	6.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2,4-Trichlorobenzene	3.00	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2,4-Trimethylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dibromo-3-chloropropane	3.00	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichlorobenzene	3.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethane	0.60	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene	0.12	J	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, cis-	0.12	J	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, trans-	0.90	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,2-Dichloropropane	2.10	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3-Dichlorobenzene	3.00	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropane	3.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene	0.60	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, cis-	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, trans-	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,4-Dichloro-2-butene, trans-	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	1,4-Dichlorobenzene	3.00	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	2,2-Dichloropropane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	2-Butanone (MEK)	7.80		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	2-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	2-Hexanone (Methyl butyl ketone)	6.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	4-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Acetone	35.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Acrolein	15.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Acrylonitrile	2.40	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Benzene	0.60	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Bromobenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Bromochloromethane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Bromodichloromethane	0.60	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Bromoform (Tribromomethane)	2.40	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Bromomethane (Methyl bromide)	1.20	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Carbon disulfide	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.60	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Chlorobenzene	0.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Chloroethane	1.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Chloroform	0.90	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Chloromethane	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Chloropicrin	60.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Dibromochloromethane	0.60	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Dibromomethane	6.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Dichlorodifluoromethane	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Dichloromethane (Methylene chloride)	6.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Ethylbenzene	0.60	ND	ug/kg	1,300,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.40	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.00	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Isopropylbenzene (Cumene)	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	m,p-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Methyl tert-butyl ether (MTBE)	1.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Naphthalene	3.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	n-Butylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	n-Propylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	o-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	sec-Butylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Styrene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	tert-Butylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Tetrachloroethene (PCE)	0.60	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Tetrahydrofuran	12.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Toluene	0.54	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Total Xylene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Trichloroethene (TCE)	0.60	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Vinyl acetate	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-11-12	11 - 12	12/17/2014	Vinyl chloride	1.20	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1,1,2-Tetrachloroethane	0.71	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1,1-Trichloroethane	0.71	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1,2,2-Tetrachloroethane	0.71	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1-Dichloroethene	0.71	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,1-Dichloropropene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2,3-Trichlorobenzene	3.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2,3-Trichloropropane	7.10	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2,4-Trichlorobenzene	3.60	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2,4-Trimethylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dibromo-3-chloropropane	3.60	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichlorobenzene	3.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichloroethane	0.71	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichloroethene	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichloroethene, cis-	0.71	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,2-Dichloropropane	2.50	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3-Dichlorobenzene	3.60	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3-Dichloropropane	3.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3-Dichloropropene	0.71	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3-Dichloropropene, cis-	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,3-Dichloropropene, trans-	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,4-Dichloro-2-butene, trans-	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	1,4-Dichlorobenzene	3.60	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	2,2-Dichloropropane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	2-Butanone (MEK)	1.30	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	2-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	2-Hexanone (Methyl butyl ketone)	7.10	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	4-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Acetone	14.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Acrylonitrile	2.80	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Benzene	0.71	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Bromobenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Bromochloromethane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Bromodichloromethane	0.71	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Bromoform (Tribromomethane)	2.80	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Bromomethane (Methyl bromide)	1.40	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Carbon disulfide	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.71	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Chlorobenzene	0.71	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Chloroethane	1.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Chloroform	1.10	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Chloromethane	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Chloropicrin	71.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Dibromochloromethane	0.71	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Dibromomethane	7.10	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Dichlorodifluoromethane	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Dichloromethane (Methylene chloride)	7.10	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Ethylbenzene	0.71	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.80	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.60	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Isopropylbenzene (Cumene)	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	m,p-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Methyl tert-butyl ether (MTBE)	1.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Naphthalene	3.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	n-Butylbenzene	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	n-Propylbenzene	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	o-Xylene	1.40	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	sec-Butylbenzene	0.71	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Styrene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	tert-Butylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Tetrachloroethene (PCE)	0.71	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Tetrahydrofuran	14.00	ND	ug/kg		
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Total Xylene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Trichloroethene (TCE)	0.71	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Vinyl acetate	7.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-07-141217-15-16	15 - 16	12/17/2014	Vinyl chloride	1.40	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.93	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.93	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.93	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	1.40	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	1.40	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.93	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	4.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	9.30	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	4.60	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	4.60	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	4.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.93	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.93	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	1.40	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	3.20	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	4.60	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	4.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.93	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	4.60	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	9.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	9.30	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Acetone	33.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Acrolein	23.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	3.70	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Benzene	0.93	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Bromobenzene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.93	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	3.70	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.80	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	9.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.93	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.93	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.80	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Chloroform	1.40	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Chloromethane	4.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Chloropicrin	93.00	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.93	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Dibromomethane	9.30	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	9.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	9.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.93	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	3.70	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4.60	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	1.80	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	9.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.80	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Naphthalene	4.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.80	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.93	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Styrene	1.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	4.60	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	0.93	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	18.00	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Toluene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Total Xylene	1.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	0.93	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	4.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	9.30	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-08-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.80	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.89	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.89	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.89	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	1.30	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	1.30	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.89	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	4.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	8.90	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	4.40	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	4.40	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	4.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.89	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.89	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	1.30	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	3.10	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	4.40	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	4.40	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.89	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	4.40	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	8.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	8.90	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Acetone	32.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Acrolein	22.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	3.60	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Benzene	0.89	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Bromobenzene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.89	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	3.60	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.80	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	8.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.89	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.89	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Chloroethane	1.80	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Chloroform	1.30	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Chloromethane	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Chloropicrin	89.00	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.89	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Dibromomethane	8.90	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	8.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	8.90	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	0.89	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	3.60	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4.40	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	1.80	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	8.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.80	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Naphthalene	4.40	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	o-Xylene	1.80	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.89	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Styrene	1.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	4.40	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.89	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	18.00	ND	ug/kg		
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Toluene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Total Xylene	1.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.89	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	4.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	8.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-08-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	1.80	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.73	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.73	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.73	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.73	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	3.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	7.30	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	3.70	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	3.70	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	3.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.73	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.73	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	2.60	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	3.70	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	3.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.73	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	3.70	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	7.30	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Acetone	26.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	2.90	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Benzene	0.73	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Bromobenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.73	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	2.90	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.50	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.34	J	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.73	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Chloroform	1.60		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Chloromethane	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Chloropicrin	73.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.73	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Dibromomethane	7.30	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	7.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.73	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.90	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.70	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Naphthalene	3.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.50	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.73	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Styrene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	3.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	0.19	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	15.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Total Xylene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	0.73	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.85	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.85	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.85	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	1.30	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	1.30	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.85	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	4.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	8.50	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	4.20	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	4.20	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	4.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.85	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.85	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	1.30	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	3.00	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	4.20	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	4.20	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	4.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.85	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	4.20	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	2.10	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	8.50	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Acetone	17.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Acrolein	21.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	3.40	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Benzene	0.85	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Bromobenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.85	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	3.40	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.70	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	8.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.85	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.85	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Chloroethane	1.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Chloroform	1.30	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Chloromethane	4.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Chloropicrin	85.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.85	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Dibromomethane	8.50	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	8.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	8.50	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	0.85	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	3.40	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4.20	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	1.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	8.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Naphthalene	4.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	o-Xylene	1.70	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.85	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Styrene	1.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	4.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.85	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	17.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Toluene	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Total Xylene	1.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.85	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	4.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	8.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	1.70	ND	ug/kg	480	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.79	ND	ug/kg	550,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.79	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.79	ND	ug/kg	71,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1,2-Trichloroethane	1.20	ND	ug/kg	250,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1-Dichloroethane	1.20	ND	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1-Dichloroethene	0.79	ND	ug/kg	8,500,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,1-Dichloropropene	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	4.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2,3-Trichloropropane	7.90	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	4.00	ND	ug/kg	490,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	4.00	ND	ug/kg	3,200	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichlorobenzene	4.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichloroethane	0.79	ND	ug/kg	160,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichloroethene	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.79	ND	ug/kg	340,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	1.20	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,2-Dichloropropane	2.80	ND	ug/kg	390,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3-Dichlorobenzene	4.00	ND	ug/kg	34,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3-Dichloropropane	4.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3-Dichloropropene	0.79	ND	ug/kg	140,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	1,4-Dichlorobenzene	4.00	ND	ug/kg	2,600,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	2,2-Dichloropropane	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	2-Butanone (MEK)	2.60	J	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	2-Chlorotoluene	4.00	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	BD-1412171006	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	7.90	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	4-Chlorotoluene	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Acetone	20.00	J	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Acrolein	20.00	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Acrylonitrile	3.20	ND	ug/kg	26,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Benzene	0.79	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Bromobenzene	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Bromochloromethane	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Bromodichloromethane	0.79	ND	ug/kg	230,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Bromoform (Tribromomethane)	3.20	ND	ug/kg	1,400,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.60	ND	ug/kg	240,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Carbon disulfide	7.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.79	ND	ug/kg	200,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Chlorobenzene	0.79	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Chloroethane	1.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Chloroform	1.20	ND	ug/kg	460,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Chloromethane	4.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Chloropicrin	79.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Dibromochloromethane	0.79	ND	ug/kg	170,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Dibromomethane	7.90	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Dichlorodifluoromethane	7.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	7.90	ND	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Ethylbenzene	0.79	ND	ug/kg	1,300,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	3.20	ND	ug/kg	7,100	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4.00	ND	ug/kg	130,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	m,p-Xylene	1.60	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Naphthalene	4.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	n-Butylbenzene	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	n-Propylbenzene	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	o-Xylene	1.60	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	sec-Butylbenzene	0.79	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Styrene	1.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	tert-Butylbenzene	4.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.79	ND	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Tetrahydrofuran	16.00	ND	ug/kg		
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Toluene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Total Xylene	1.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Trichloroethene (TCE)	0.79	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	4.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Vinyl acetate	7.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412171006	7 - 8	12/17/2014	Vinyl chloride	1.60	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1,1,2-Tetrachloroethane	0.59	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1,1-Trichloroethane	0.59	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1,2,2-Tetrachloroethane	0.59	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1,2-Trichloroethane	0.88	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethane	0.88	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethene	0.59	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,1-Dichloropropene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichlorobenzene	3.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichloropropane	5.90	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2,4-Trichlorobenzene	3.00	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2,4-Trimethylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dibromo-3-chloropropane	3.00	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichlorobenzene	3.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethane	0.59	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, cis-	0.59	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, trans-	0.88	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,2-Dichloropropane	2.10	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3-Dichlorobenzene	3.00	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropane	3.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene	0.59	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, cis-	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, trans-	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,4-Dichloro-2-butene, trans-	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	1,4-Dichlorobenzene	3.00	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	2,2-Dichloropropane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	2-Butanone (MEK)	5.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	2-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	2-Hexanone (Methyl butyl ketone)	5.90	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	4-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Acetone	21.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Acrolein	15.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Acrylonitrile	2.40	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Benzene	0.59	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Bromobenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Bromochloromethane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Bromodichloromethane	0.59	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Bromoform (Tribromomethane)	2.40	ND	ug/kg	1,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Bromomethane (Methyl bromide)	1.20	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Carbon disulfide	5.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.59	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Chlorobenzene	0.59	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Chloroethane	1.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Chloroform	0.88	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Chloromethane	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Chloropicrin	59.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Dibromochloromethane	0.59	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Dibromomethane	5.90	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Dichlorodifluoromethane	5.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Dichloromethane (Methylene chloride)	5.90	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Ethylbenzene	0.59	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.40	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.00	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Isopropylbenzene (Cumene)	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	m,p-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Methyl tert-butyl ether (MTBE)	1.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Naphthalene	3.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	n-Butylbenzene	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	n-Propylbenzene	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	o-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	sec-Butylbenzene	0.59	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Styrene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	tert-Butylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Tetrachloroethene (PCE)	0.59	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Tetrahydrofuran	12.00	ND	ug/kg		
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Toluene	0.88	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Total Xylene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Trichloroethene (TCE)	0.59	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Vinyl acetate	5.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-09-141217-11-12	11 - 12	12/17/2014	Vinyl chloride	1.20	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.72	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.72	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.72	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.72	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	3.60	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	7.20	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	3.60	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	3.60	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	3.60	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.72	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.72	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	2.50	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	3.60	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	3.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.72	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	3.60	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	7.20	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Acetone	26.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	2.90	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Benzene	0.72	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Bromobenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.72	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	2.90	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.40	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	1.80		ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.72	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.40	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Chloroform	3.30		ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Chloromethane	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Chloropicrin	72.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.72	ND	ug/kg	170,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Dibromomethane	7.20	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	7.20	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.72	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.90	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.60	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.40	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Naphthalene	3.60	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.40	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.72	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Styrene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	3.60	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	0.74		ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	14.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Total Xylene	1.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	0.32	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	7.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.40	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.57	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.57	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.57	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	0.86	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	0.86	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.57	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	2.90	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	5.70	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	2.90	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	2.90	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	2.90	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.57	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.42	J	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.42	J	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	0.86	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	2.00	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	2.90	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	2.90	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.57	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	2.90	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	2.40	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	5.70	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Acetone	29.00		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Acrolein	14.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	2.30	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Benzene	0.12	J	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Bromobenzene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.57	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	2.30	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.10	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.57	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.57	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Chloroethane	1.10	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Chloroform	0.86	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Chloromethane	2.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Chloropicrin	57.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.57	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Dibromomethane	5.70	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	5.70	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	0.57	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.30	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.90	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.10	ND	ug/kg	5,100,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Naphthalene	2.90	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	o-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.57	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Styrene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	2.90	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.57	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	11.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Toluene	0.86	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Total Xylene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.57	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	5.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	1.10	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1,1,2-Tetrachloroethane	1.30	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1,1-Trichloroethane	1.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1,2,2-Tetrachloroethane	1.30	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1,2-Trichloroethane	1.90	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethane	1.90	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethene	1.30	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,1-Dichloropropene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichlorobenzene	6.30	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichloropropane	13.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2,4-Trichlorobenzene	6.30	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2,4-Trimethylbenzene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dibromo-3-chloropropane	6.30	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichlorobenzene	6.30	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethane	1.30	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, cis-	1.30	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, trans-	1.90	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,2-Dichloropropane	4.40	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3-Dichlorobenzene	6.30	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropane	6.30	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene	1.30	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, cis-	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, trans-	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,4-Dichloro-2-butene, trans-	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	1,4-Dichlorobenzene	6.30	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	2,2-Dichloropropane	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	2-Butanone (MEK)	13.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	2-Chlorotoluene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	2-Hexanone (Methyl butyl ketone)	13.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	4-Chlorotoluene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Acetone	3.30	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Acrolein	32.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Acrylonitrile	5.10	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Benzene	1.30	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Bromobenzene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Bromochloromethane	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Bromodichloromethane	1.30	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Bromoform (Tribromomethane)	5.10	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Bromomethane (Methyl bromide)	2.50	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Carbon disulfide	13.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	1.30	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Chlorobenzene	1.30	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Chloroethane	2.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Chloroform	1.90	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Chloromethane	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Chloropicrin	130.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Cymene, p- (4-Isopropyltoluene)	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Dibromochloromethane	1.30	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Dibromomethane	13.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Dichlorodifluoromethane	13.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Dichloromethane (Methylene chloride)	13.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Ethylbenzene	1.30	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	5.10	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	6.30	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Isopropylbenzene (Cumene)	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	m,p-Xylene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	13.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Methyl tert-butyl ether (MTBE)	2.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Naphthalene	6.30	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	n-Butylbenzene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	n-Propylbenzene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	o-Xylene	2.50	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	sec-Butylbenzene	1.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Styrene	2.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	tert-Butylbenzene	6.30	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Tetrachloroethene (PCE)	1.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Tetrahydrofuran	25.00	ND	ug/kg		
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Toluene	1.90	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Total Xylene	2.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Trichloroethene (TCE)	1.30	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	6.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Vinyl acetate	13.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-10-141217-11-12	11 - 12	12/17/2014	Vinyl chloride	2.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1,1,2-Tetrachloroethane	0.56	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1,1-Trichloroethane	0.56	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1,2,2-Tetrachloroethane	0.56	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1,2-Trichloroethane	0.84	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethane	0.84	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1-Dichloroethene	0.56	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,1-Dichloropropene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichlorobenzene	2.80	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2,3-Trichloropropane	5.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2,4-Trichlorobenzene	2.80	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2,4-Trimethylbenzene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dibromo-3-chloropropane	2.80	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichlorobenzene	2.80	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethane	0.56	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, cis-	0.56	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichloroethene, trans-	0.84	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,2-Dichloropropane	2.00	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3-Dichlorobenzene	2.80	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropane	2.80	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene	0.56	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, cis-	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,3-Dichloropropene, trans-	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,4-Dichloro-2-butene, trans-	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	1,4-Dichlorobenzene	2.80	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	2,2-Dichloropropane	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	2-Butanone (MEK)	5.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	2-Chlorotoluene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	2-Hexanone (Methyl butyl ketone)	5.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	4-Chlorotoluene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Acetone	20.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Acrolein	14.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Acrylonitrile	2.20	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Benzene	0.56	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Bromobenzene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Bromochloromethane	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Bromodichloromethane	0.56	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Bromoform (Tribromomethane)	2.20	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Bromomethane (Methyl bromide)	1.10	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Carbon disulfide	5.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.56	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Chlorobenzene	0.56	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Chloroethane	1.10	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Chloroform	0.84	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Chloromethane	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Chloropicrin	56.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Dibromochloromethane	0.56	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Dibromomethane	5.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Dichlorodifluoromethane	5.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Dichloromethane (Methylene chloride)	5.60	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Ethylbenzene	0.56	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.20	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.80	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Isopropylbenzene (Cumene)	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	m,p-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Methyl tert-butyl ether (MTBE)	1.10	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Naphthalene	2.80	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	n-Butylbenzene	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	n-Propylbenzene	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	o-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	sec-Butylbenzene	0.56	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Styrene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	tert-Butylbenzene	2.80	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Tetrachloroethene (PCE)	0.56	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Tetrahydrofuran	11.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Toluene	0.84	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Total Xylene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Trichloroethene (TCE)	0.56	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.80	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Vinyl acetate	5.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-3-4	3 - 4	12/17/2014	Vinyl chloride	1.10	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.60	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.60	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.60	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1,2-Trichloroethane	0.90	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethane	0.90	ND	ug/kg	2,500,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1-Dichloroethene	0.60	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,1-Dichloropropene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	3.00	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2,3-Trichloropropane	6.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	3.00	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	3.00	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichlorobenzene	3.00	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethane	0.60	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.60	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	0.90	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,2-Dichloropropane	2.10	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3-Dichlorobenzene	3.00	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropane	3.00	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene	0.60	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	1,4-Dichlorobenzene	3.00	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	2,2-Dichloropropane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	2-Butanone (MEK)	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	2-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	6.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	4-Chlorotoluene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Acetone	22.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Acrolein	15.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Acrylonitrile	2.40	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Benzene	0.60	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Bromobenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Bromochloromethane	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Bromodichloromethane	0.60	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Bromoform (Tribromomethane)	2.40	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.20	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Carbon disulfide	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.60	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Chlorobenzene	0.60	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Chloroethane	1.20	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Chloroform	0.90	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Chloromethane	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Chloropicrin	60.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Dibromochloromethane	0.60	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Dibromomethane	6.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Dichlorodifluoromethane	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	6.00	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Ethylbenzene	0.60	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.40	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.00	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	m,p-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.20	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Naphthalene	3.00	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	n-Butylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	n-Propylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	o-Xylene	1.20	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	sec-Butylbenzene	0.60	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Styrene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	tert-Butylbenzene	3.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.60	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Tetrahydrofuran	12.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Toluene	0.90	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Total Xylene	1.20	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Trichloroethene (TCE)	0.60	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Vinyl acetate	6.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-7-8	7 - 8	12/17/2014	Vinyl chloride	1.20	ND	ug/kg	480	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1,1,2-Tetrachloroethane	0.73	ND	ug/kg	550,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1,1-Trichloroethane	0.73	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1,2,2-Tetrachloroethane	0.73	ND	ug/kg	71,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1,2-Trichloroethane	1.10	ND	ug/kg	250,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1-Dichloroethane	1.10	ND	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1-Dichloroethene	0.73	ND	ug/kg	8,500,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,1-Dichloropropene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2,3-Trichlorobenzene	3.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2,3-Trichloropropane	7.30	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2,4-Trichlorobenzene	3.70	ND	ug/kg	490,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2,4-Trimethylbenzene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dibromo-3-chloropropane	3.70	ND	ug/kg	3,200	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichlorobenzene	3.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichloroethane	0.73	ND	ug/kg	160,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichloroethene	0.73	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichloroethene, cis-	0.73	ND	ug/kg	340,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichloroethene, trans-	1.10	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,2-Dichloropropane	2.60	ND	ug/kg	390,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3-Dichlorobenzene	3.70	ND	ug/kg	34,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3-Dichloropropane	3.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3-Dichloropropene	0.73	ND	ug/kg	140,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3-Dichloropropene, cis-	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,3-Dichloropropene, trans-	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,4-Dichloro-2-butene, trans-	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	1,4-Dichlorobenzene	3.70	ND	ug/kg	2,600,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	2,2-Dichloropropane	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	2-Butanone (MEK)	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	2-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	2-Hexanone (Methyl butyl ketone)	7.30	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	4-Chlorotoluene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Acetone	26.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Acrolein	18.00	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Acrylonitrile	2.90	ND	ug/kg	26,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Benzene	0.73	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Bromobenzene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Bromochloromethane	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Bromodichloromethane	0.73	ND	ug/kg	230,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Bromoform (Tribromomethane)	2.90	ND	ug/kg	1,400,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Bromomethane (Methyl bromide)	1.50	ND	ug/kg	240,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Carbon disulfide	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.73	ND	ug/kg	200,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Chlorobenzene	0.73	ND	ug/kg	3,400,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Chloroethane	1.50	ND	ug/kg	1,700,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Chloroform	1.10	ND	ug/kg	460,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Chloromethane	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Chloropicrin	73.00	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Dibromochloromethane	0.73	ND	ug/kg	170,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Dibromomethane	7.30	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Dichlorodifluoromethane	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Dichloromethane (Methylene chloride)	7.30	ND	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Ethylbenzene	0.73	ND	ug/kg	1,300,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.90	ND	ug/kg	7,100	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3.70	ND	ug/kg	130,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Isopropylbenzene (Cumene)	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	m,p-Xylene	1.50	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Methyl tert-butyl ether (MTBE)	1.50	ND	ug/kg	5,100,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Naphthalene	3.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	n-Butylbenzene	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	n-Propylbenzene	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	o-Xylene	1.50	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	sec-Butylbenzene	0.73	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Styrene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	tert-Butylbenzene	3.70	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Tetrachloroethene (PCE)	0.73	ND	ug/kg	1,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Tetrahydrofuran	15.00	ND	ug/kg		
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Toluene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Total Xylene	1.50	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Trichloroethene (TCE)	0.73	ND	ug/kg	85,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	3.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Vinyl acetate	7.30	ND	ug/kg	10,000,000	ug/kg
Landfill 2	BD-1412170816	7 - 8	12/17/2014	Vinyl chloride	1.50	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1,1,2-Tetrachloroethane	0.54	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1,1-Trichloroethane	0.54	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1,2,2-Tetrachloroethane	0.54	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1,2-Trichloroethane	0.81	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethane	0.81	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1-Dichloroethene	0.54	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,1-Dichloropropene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichlorobenzene	2.70	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2,3-Trichloropropane	5.40	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2,4-Trichlorobenzene	2.70	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2,4-Trimethylbenzene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dibromo-3-chloropropane	2.70	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichlorobenzene	2.70	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethane	0.54	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, cis-	0.54	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichloroethene, trans-	0.81	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,2-Dichloropropane	1.90	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3,5-Trimethylbenzene (Mesitylene)	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3-Dichlorobenzene	2.70	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropane	2.70	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene	0.54	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, cis-	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,3-Dichloropropene, trans-	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,4-Dichloro-2-butene, trans-	2.70	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	1,4-Dichlorobenzene	2.70	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	2,2-Dichloropropane	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	2-Butanone (MEK)	5.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	2-Chlorotoluene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	2-Hexanone (Methyl butyl ketone)	5.40	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	4-Chlorotoluene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Acetone	19.00	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Acrolein	14.00	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Acrylonitrile	2.20	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Benzene	0.54	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Bromobenzene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Bromochloromethane	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Bromodichloromethane	0.54	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Bromoform (Tribromomethane)	2.20	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Bromomethane (Methyl bromide)	1.10	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Carbon disulfide	5.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Carbon tetrachloride (Tetrachloromethane)	0.54	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Chlorobenzene	0.54	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Chloroethane	1.10	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Chloroform	0.81	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Chloromethane	2.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Chloropicrin	54.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Cymene, p- (4-Isopropyltoluene)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Dibromochloromethane	0.54	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Dibromomethane	5.40	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Dichlorodifluoromethane	5.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Dichloromethane (Methylene chloride)	5.40	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Ethylbenzene	0.54	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Ethylene dibromide (1,2-Dibromoethane)	2.20	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	2.70	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Isopropylbenzene (Cumene)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	m,p-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	5.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Methyl tert-butyl ether (MTBE)	1.10	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Naphthalene	2.70	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	n-Butylbenzene	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	n-Propylbenzene	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	o-Xylene	1.10	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	sec-Butylbenzene	0.54	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Styrene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	tert-Butylbenzene	2.70	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Tetrachloroethene (PCE)	0.54	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Tetrahydrofuran	11.00	ND	ug/kg		
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Toluene	0.81	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Total Xylene	1.10	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Trichloroethene (TCE)	0.54	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Trichlorofluoromethane (Fluorotrichloromethane)	2.70	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Vinyl acetate	5.40	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-11-141217-11-12	11 - 12	12/17/2014	Vinyl chloride	1.10	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, cis-	0.08	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, cis-	0.08	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.39	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.39	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acetone	2.1	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acetone	2.1	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acrolein	4.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acrolein	4.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromobenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromobenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromochloromethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromochloromethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Carbon disulfide	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Carbon disulfide	0.65	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloropicrin	2.3	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Chloropicrin	2.3	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dichloromethane (Methylene chloride)	0.65	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Dichloromethane (Methylene chloride)	0.65	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	m,p-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	m,p-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	n-Propylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	n-Propylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	o-Xylene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	o-Xylene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Tetrahydrofuran	0.59	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Tetrahydrofuran	0.59	ND	ug/kg		
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-17-150625-20-22	20-22	06/25/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1,1,2-Tetrachloroethane	0.37	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1,1-Trichloroethane	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1,2,2-Tetrachloroethane	0.12	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1,2-Trichloroethane	0.36	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1-Dichloroethane	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1-Dichloroethene	0.31	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,1-Dichloropropene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2,3-Trichlorobenzene	0.17	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2,3-Trichloropropane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2,4-Trichlorobenzene	0.21	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2,4-Trimethylbenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dibromo-3-chloropropane	0.46	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichlorobenzene	0.18	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichloroethane	0.13	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichloroethene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichloroethene, cis-	0.17	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichloroethene, trans-	0.25	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,2-Dichloropropane	0.27	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.17	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3-Dichlorobenzene	0.16	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3-Dichloropropane	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3-Dichloropropene	0.14	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3-Dichloropropene, cis-	0.14	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,3-Dichloropropene, trans-	0.14	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,4-Dichloro-2-butene, trans-	0.46	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	1,4-Dichlorobenzene	0.16	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	2,2-Dichloropropane	0.26	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	2-Butanone (MEK)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	2-Chlorotoluene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	2-Hexanone (Methyl butyl ketone)	0.78	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	4-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Acetone	55		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Acrolein	9.4	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Acrylonitrile	0.6	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Benzene	0.14	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Bromobenzene	0.24	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Bromochloromethane	0.32	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Bromodichloromethane	0.2	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Bromoform (Tribromomethane)	0.28	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Bromomethane (Methyl bromide)	0.4	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Carbon disulfide	1.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Carbon tetrachloride (Tetrachloromethane)	0.25	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Chlorobenzene	0.41	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Chloroethane	0.37	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Chloroform	0.43	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Chloromethane	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Chloropicrin	4.5	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Cymene, p- (4-Isopropyltoluene)	0.15	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Dibromochloromethane	0.18	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Dibromomethane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Dichlorodifluoromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Dichloromethane (Methylene chloride)	4	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Ethylbenzene	0.15	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Ethylene dibromide (1,2-Dibromoethane)	0.2	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.27	ND	ug/kg	130,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Isopropylbenzene (Cumene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	m,p-Xylene	0.23	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.28	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Methyl tert-butyl ether (MTBE)	0.1	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Naphthalene	0.16	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	n-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	n-Propylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	o-Xylene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	sec-Butylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Styrene	0.47	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	tert-Butylbenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Tetrachloroethene (PCE)	0.16	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Tetrahydrofuran	1.2	ND	ug/kg		
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Toluene	0.46	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Total Xylene	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Trichloroethene (TCE)	0.15	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.45	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Vinyl acetate	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-17B-150717-16-17	16-17	07/17/2015	Vinyl chloride	0.14	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,1,2-Tetrachloroethane	0.18	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,1,2-Tetrachloroethane	0.18	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,1-Trichloroethane	0.06	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,1-Trichloroethane	0.06	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloroethene	0.15	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloroethene	0.15	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,3-Trichloropropane	0.09	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,3-Trichloropropane	0.09	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,4-Trichlorobenzene	0.1	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,4-Trichlorobenzene	0.1	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, cis-	0.08	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, cis-	0.08	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloropropane	0.13	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,2-Dichloropropane	0.13	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropane	0.08	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropane	0.08	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Chlorotoluene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Chlorotoluene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.39	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.39	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acetone	4.7	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acetone	4.7	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acrolein	4.7	ND	ug/kg	85,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acrolein	4.7	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromobenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromobenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromochloromethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromochloromethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Carbon disulfide	2	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Carbon disulfide	2	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chlorobenzene	0.2	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chlorobenzene	0.2	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloroethane	0.18	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloroethane	0.18	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloroform	0.21	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloroform	0.21	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloropicrin	2.2	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Chloropicrin	2.2	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.14	J	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.14	J	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dichloromethane (Methylene chloride)	0.64	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Dichloromethane (Methylene chloride)	0.64	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Ethylbenzene	0.07	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Ethylbenzene	0.07	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.13	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.13	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	m,p-Xylene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	m,p-Xylene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Methyl tert-butyl ether (MTBE)	0.59	J	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Methyl tert-butyl ether (MTBE)	0.59	J	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	n-Propylbenzene	0.06	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	n-Propylbenzene	0.06	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	o-Xylene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	o-Xylene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Styrene	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Styrene	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Tetrahydrofuran	0.58	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Tetrahydrofuran	0.58	ND	ug/kg		
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Toluene	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Toluene	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-22-150625-20-22	20-22	06/25/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1,2-Trichloroethane	0.21	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3-Dichlorobenzene	0.09	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,3-Dichloropropene, trans-	0.08	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,4-Dichloro-2-butene, trans-	0.27	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	2-Hexanone (Methyl butyl ketone)	0.46	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Acetone	9.6	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Acrolein	5.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Acrylonitrile	0.36	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Bromobenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Bromochloromethane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Bromoform (Tribromomethane)	0.16	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Carbon disulfide	0.77	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Chlorobenzene	0.24	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Chloroform	0.26	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Chloromethane	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Chloropicrin	2.7	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Dibromomethane	0.11	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Dichloromethane (Methylene chloride)	0.77	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	m,p-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	n-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	n-Propylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	o-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Tetrahydrofuran	0.7	ND	ug/kg		
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-24B-150914-16-17	16-17	09/14/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1,1,2-Tetrachloroethane	0.31	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1,2-Trichloroethane	0.3	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1-Dichloroethene	0.26	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2,4-Trichlorobenzene	0.18	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dibromo-3-chloropropane	0.39	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichloroethene, trans-	0.21	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3-Dichloropropene	0.12	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3-Dichloropropene, cis-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,4-Dichloro-2-butene, trans-	0.38	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	1,4-Dichlorobenzene	0.14	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	2-Butanone (MEK)	0.27	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	2-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	2-Hexanone (Methyl butyl ketone)	0.66	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Acetone	2.7	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Acrolein	7.9	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Acrylonitrile	0.51	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Benzene	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Bromobenzene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Bromochloromethane	0.27	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Bromomethane (Methyl bromide)	0.33	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Carbon tetrachloride (Tetrachloromethane)	0.21	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Chlorobenzene	0.34	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Chloroethane	0.31	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Chloroform	0.36	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Chloromethane	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Chloropicrin	3.8	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Dibromomethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Dichlorodifluoromethane	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	m,p-Xylene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Naphthalene	0.14	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	n-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	n-Propylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	o-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Styrene	0.4	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Tetrachloroethene (PCE)	0.14	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Tetrahydrofuran	0.98	ND	ug/kg		
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Toluene	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Total Xylene	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.38	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-26B-150717-21-22	21-22	07/17/2015	Vinyl chloride	0.12	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dibromo-3-chloropropane	0.31	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,4-Dichloro-2-butene, trans-	0.31	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	2-Butanone (MEK)	3.4	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	2-Hexanone (Methyl butyl ketone)	0.52	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Acetone	24	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Acrolein	6.4	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Acrylonitrile	0.4	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Bromobenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Bromomethane (Methyl bromide)	0.27	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Carbon disulfide	2.3	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Chloroethane	0.25	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Chloroform	0.29	J	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Chloromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Chloropicrin	3	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Dichloromethane (Methylene chloride)	0.87	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Styrene	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Tetrahydrofuran	0.78	ND	ug/kg		
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Toluene	0.2	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-28B-150720-16-17	16-17	07/20/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1,1,2-Tetrachloroethane	0.27	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1,2-Trichloroethane	0.26	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dibromo-3-chloropropane	0.34	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichlorobenzene	0.13	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichloroethene, trans-	0.18	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,4-Dichloro-2-butene, trans-	0.33	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	2,2-Dichloropropane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	2-Butanone (MEK)	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	2-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	2-Hexanone (Methyl butyl ketone)	0.56	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	4-Chlorotoluene	0.11	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Acetone	6.9	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Acrolein	6.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Acrylonitrile	0.44	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Bromobenzene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Bromochloromethane	0.23	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Bromodichloromethane	0.15	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Bromoform (Tribromomethane)	0.2	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Bromomethane (Methyl bromide)	0.29	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Carbon disulfide	0.93	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Carbon tetrachloride (Tetrachloromethane)	0.18	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Chlorobenzene	0.29	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Chloroethane	0.27	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Chloroform	0.31	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Chloromethane	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Chloropicrin	3.3	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Dibromomethane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Dichloromethane (Methylene chloride)	0.94	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Ethylene dibromide (1,2-Dibromoethane)	0.15	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	m,p-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	n-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Styrene	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Tetrahydrofuran	0.84	ND	ug/kg		
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-30B-150720-11-12	11-12	07/20/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dibromo-3-chloropropane	0.31	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	2-Butanone (MEK)	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	2-Hexanone (Methyl butyl ketone)	0.51	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Acetone	0.8	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Acrolein	6.2	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Acrylonitrile	0.4	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Bromobenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Bromochloromethane	0.21	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Carbon disulfide	0.85	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Chloroform	0.29	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Chloromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Chloropicrin	3	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Dichloromethane (Methylene chloride)	0.85	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	m,p-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	n-Propylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	o-Xylene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Styrene	0.31	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Tetrahydrofuran	0.77	ND	ug/kg		
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-32B-150720-16-17	16-17	07/20/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acetone	0.84	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acetone	0.84	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acrolein	6.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acrolein	6.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromobenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromobenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloropicrin	3.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Chloropicrin	3.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dichloromethane (Methylene chloride)	0.9	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Dichloromethane (Methylene chloride)	0.9	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Tetrahydrofuran	0.81	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Tetrahydrofuran	0.81	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-33-150625-3-4	3-4	06/25/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	2-Hexanone (Methyl butyl ketone)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acetone	0.85	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acetone	0.85	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acrolein	6.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acrolein	6.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromobenzene	0.17	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromobenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloropicrin	3.2	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Chloropicrin	3.2	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dichloromethane (Methylene chloride)	0.9	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Dichloromethane (Methylene chloride)	0.9	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Tetrahydrofuran	0.81	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Tetrahydrofuran	0.81	ND	ug/kg		
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-33-150625-4-5	4-5	06/25/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1,2-Trichloroethane	0.23	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,1-Dichloropropene	0.11	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dibromo-3-chloropropane	0.3	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,2-Dichloropropane	0.17	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	2-Butanone (MEK)	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	2-Hexanone (Methyl butyl ketone)	0.51	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Acetone	4.8	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Acrolein	6.2	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Acrylonitrile	0.39	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Bromobenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Bromochloromethane	0.21	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Carbon disulfide	0.84	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Chloroform	0.28	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Chloromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Chloropicrin	3	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Dibromomethane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Dichloromethane (Methylene chloride)	0.85	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.17	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	m,p-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	n-Propylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	o-Xylene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Styrene	0.31	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Tetrahydrofuran	0.76	ND	ug/kg		
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-35B-150720-15-16	15-16	07/20/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1,1,2-Tetrachloroethane	0.2	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1,2-Trichloroethane	0.19	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,1-Dichloropropene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2,4-Trichlorobenzene	0.12	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2,4-Trimethylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dibromo-3-chloropropane	0.25	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichlorobenzene	0.1	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichloroethene, trans-	0.13	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3-Dichlorobenzene	0.09	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,3-Dichloropropene, trans-	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,4-Dichloro-2-butene, trans-	0.25	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	1,4-Dichlorobenzene	0.09	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	2,2-Dichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	2-Butanone (MEK)	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	2-Hexanone (Methyl butyl ketone)	0.42	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Acetone	1.4	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Acrolein	5.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Acrylonitrile	0.32	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Bromobenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Bromochloromethane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Bromodichloromethane	0.11	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Bromoform (Tribromomethane)	0.15	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Bromomethane (Methyl bromide)	0.21	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Carbon disulfide	0.7	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Carbon tetrachloride (Tetrachloromethane)	0.13	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Chlorobenzene	0.22	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Chloroethane	0.2	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Chloroform	0.23	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Chloromethane	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Chloropicrin	2.4	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Dibromochloromethane	0.1	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Dichlorodifluoromethane	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Dichloromethane (Methylene chloride)	0.7	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Ethylene dibromide (1,2-Dibromoethane)	0.11	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	m,p-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Naphthalene	0.09	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	n-Propylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	o-Xylene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	sec-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Styrene	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	tert-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Tetrahydrofuran	0.63	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Total Xylene	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-4-5	4-5	06/24/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,1-Dichloropropene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2,4-Trimethylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dibromo-3-chloropropane	0.24	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichloroethene, trans-	0.13	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,4-Dichloro-2-butene, trans-	0.24	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	2,2-Dichloropropane	0.14	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	2-Hexanone (Methyl butyl ketone)	0.4	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Acetone	0.63	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Acrolein	4.9	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Acrylonitrile	0.31	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Bromobenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Bromochloromethane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Carbon disulfide	0.67	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Carbon tetrachloride (Tetrachloromethane)	0.13	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Chloromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Chloropicrin	2.3	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Dibromomethane	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Dichlorodifluoromethane	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Dichloromethane (Methylene chloride)	0.67	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	m,p-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	n-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	n-Propylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	o-Xylene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Tetrahydrofuran	0.6	ND	ug/kg		
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41-150624-5-6	5-6	06/24/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1,1,2-Tetrachloroethane	0.31	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1,2-Trichloroethane	0.3	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1-Dichloroethane	0.09	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1-Dichloroethene	0.26	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2,3-Trichlorobenzene	0.15	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2,4-Trichlorobenzene	0.18	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dibromo-3-chloropropane	0.39	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichloroethene, trans-	0.21	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3-Dichloropropene	0.12	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3-Dichloropropene, cis-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,4-Dichloro-2-butene, trans-	0.39	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	1,4-Dichlorobenzene	0.14	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	2-Butanone (MEK)	0.27	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	2-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	2-Hexanone (Methyl butyl ketone)	0.66	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Acetone	1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Acrolein	8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Acrylonitrile	0.51	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Benzene	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Bromobenzene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Bromochloromethane	0.27	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Bromomethane (Methyl bromide)	0.33	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Carbon tetrachloride (Tetrachloromethane)	0.21	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Chlorobenzene	0.34	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Chloroethane	0.31	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Chloroform	0.37	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Chloromethane	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Chloropicrin	3.8	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Dibromomethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Dichlorodifluoromethane	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Ethylbenzene	0.13	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	m,p-Xylene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Naphthalene	0.14	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	n-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	n-Propylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	o-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Styrene	0.4	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Tetrachloroethene (PCE)	0.14	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Tetrahydrofuran	0.99	ND	ug/kg		
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Toluene	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Total Xylene	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.38	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-41A-150811-1-2	1-2	08/11/2015	Vinyl chloride	0.12	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1,1,2-Tetrachloroethane	0.31	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1,2-Trichloroethane	0.3	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1-Dichloroethene	0.25	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2,4-Trichlorobenzene	0.18	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dibromo-3-chloropropane	0.38	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichloroethene, trans-	0.2	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3-Dichloropropene	0.11	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3-Dichloropropene, cis-	0.11	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,4-Dichloro-2-butene, trans-	0.38	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	1,4-Dichlorobenzene	0.13	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	2-Butanone (MEK)	8	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	2-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	2-Hexanone (Methyl butyl ketone)	0.65	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Acetone	41		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Acrolein	7.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Acrylonitrile	0.5	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Benzene	0.11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Bromobenzene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Bromochloromethane	0.27	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Bromomethane (Methyl bromide)	0.33	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Carbon tetrachloride (Tetrachloromethane)	0.2	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Chlorobenzene	0.34	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Chloroethane	0.31	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Chloroform	0.36	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Chloromethane	0.28	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Chloropicrin	3.7	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Dibromomethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Dichlorodifluoromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	m,p-Xylene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Naphthalene	0.13	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	n-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	n-Propylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	o-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Styrene	0.39	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Tetrachloroethene (PCE)	0.14	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Tetrahydrofuran	0.97	ND	ug/kg		
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Toluene	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Total Xylene	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.38	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-48A-150915-4-5	4-5	09/15/2015	Vinyl chloride	0.11	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1,1,2-Tetrachloroethane	0.27	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1,2-Trichloroethane	0.26	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dibromo-3-chloropropane	0.34	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichlorobenzene	0.13	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene, trans-	0.18	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,4-Dichloro-2-butene, trans-	0.33	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	2,2-Dichloropropane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	2-Butanone (MEK)	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	2-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	2-Hexanone (Methyl butyl ketone)	0.56	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Acetone	0.88	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Acrolein	6.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Acrylonitrile	0.44	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Bromobenzene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Bromochloromethane	0.23	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Bromodichloromethane	0.15	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Bromoform (Tribromomethane)	0.2	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Bromomethane (Methyl bromide)	0.29	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Carbon disulfide	0.94	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Carbon tetrachloride (Tetrachloromethane)	0.18	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Chlorobenzene	0.3	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Chloroethane	0.27	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Chloroform	0.31	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Chloromethane	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Chloropicrin	3.3	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Cymene, p- (4-Isopropyltoluene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Dibromomethane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Dichloromethane (Methylene chloride)	0.94	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Ethylene dibromide (1,2-Dibromoethane)	0.15	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	m,p-Xylene	0.17	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	n-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Styrene	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Tetrahydrofuran	0.84	ND	ug/kg		
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Trichloroethene (TCE)	0.11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-50A-150810-0-2	0-2	08/10/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1,1,2-Tetrachloroethane	0.28	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1,1-Trichloroethane	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1,2-Trichloroethane	0.27	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1-Dichloroethene	0.23	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2,3-Trichlorobenzene	0.13	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2,4-Trichlorobenzene	0.16	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dibromo-3-chloropropane	0.35	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichlorobenzene	0.14	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene, cis-	0.13	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene, trans-	0.19	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,2-Dichloropropane	0.2	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.13	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3-Dichlorobenzene	0.12	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropane	0.13	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene, trans-	0.11	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,4-Dichloro-2-butene, trans-	0.35	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	2,2-Dichloropropane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	2-Butanone (MEK)	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	2-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	2-Hexanone (Methyl butyl ketone)	0.59	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	4-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Acetone	0.92	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Acrolein	7.2	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Acrylonitrile	0.46	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Bromobenzene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Bromochloromethane	0.24	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Bromodichloromethane	0.15	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Bromoform (Tribromomethane)	0.21	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Bromomethane (Methyl bromide)	0.3	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Carbon disulfide	0.98	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Carbon tetrachloride (Tetrachloromethane)	0.19	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Chlorobenzene	0.31	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Chloroethane	0.28	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Chloroform	0.33	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Chloromethane	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Chloropicrin	3.4	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Cymene, p- (4-Isopropyltoluene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Dibromochloromethane	0.14	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Dibromomethane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Dichlorodifluoromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Dichloromethane (Methylene chloride)	0.98	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Ethylene dibromide (1,2-Dibromoethane)	0.16	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.2	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	m,p-Xylene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	n-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	n-Propylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	o-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	sec-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Styrene	0.36	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	tert-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Tetrahydrofuran	0.88	ND	ug/kg		
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Toluene	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Total Xylene	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Trichloroethene (TCE)	0.11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Vinyl acetate	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-51A-150811-0-2	0-2	08/11/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1,1,2-Tetrachloroethane	0.42	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1,1-Trichloroethane	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1,2,2-Tetrachloroethane	0.13	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1,2-Trichloroethane	0.4	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1-Dichloroethane	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1-Dichloroethene	0.35	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,1-Dichloropropene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2,3-Trichlorobenzene	0.2	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2,3-Trichloropropane	0.21	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2,4-Trichlorobenzene	0.24	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2,4-Trimethylbenzene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dibromo-3-chloropropane	0.52	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichlorobenzene	0.2	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethane	0.15	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene, cis-	0.19	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichloroethene, trans-	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,2-Dichloropropane	0.3	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.19	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3-Dichlorobenzene	0.18	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropane	0.19	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene	0.16	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene, cis-	0.16	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,3-Dichloropropene, trans-	0.16	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,4-Dichloro-2-butene, trans-	0.52	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	1,4-Dichlorobenzene	0.18	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	2,2-Dichloropropane	0.3	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	2-Butanone (MEK)	0.36	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	2-Chlorotoluene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	2-Hexanone (Methyl butyl ketone)	0.88	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	4-Chlorotoluene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Acetone	1.4	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Acrolein	11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Acrylonitrile	0.68	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Benzene	0.16	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Bromobenzene	0.27	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Bromochloromethane	0.36	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Bromodichloromethane	0.23	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Bromoform (Tribromomethane)	0.31	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Bromomethane (Methyl bromide)	0.45	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Carbon disulfide	1.4	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Carbon tetrachloride (Tetrachloromethane)	0.28	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Chlorobenzene	0.46	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Chloroethane	0.42	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Chloroform	0.49	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Chloromethane	0.39	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Chloropicrin	5.1	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Cymene, p- (4-Isopropyltoluene)	0.16	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Dibromochloromethane	0.2	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Dibromomethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Dichlorodifluoromethane	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Dichloromethane (Methylene chloride)	1.4	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Ethylbenzene	0.17	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Ethylene dibromide (1,2-Dibromoethane)	0.23	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.3	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Isopropylbenzene (Cumene)	0.14	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	m,p-Xylene	0.26	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Methyl tert-butyl ether (MTBE)	0.11	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Naphthalene	0.18	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	n-Butylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	n-Propylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	o-Xylene	0.23	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	sec-Butylbenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Styrene	0.53	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	tert-Butylbenzene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Tetrachloroethene (PCE)	0.18	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Tetrahydrofuran	1.3	ND	ug/kg		
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Toluene	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Total Xylene	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Trichloroethene (TCE)	0.16	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.51	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Vinyl acetate	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-54A-150811-0-2	0-2	08/11/2015	Vinyl chloride	0.16	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1,1,2-Tetrachloroethane	0.27	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1,2-Trichloroethane	0.26	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dibromo-3-chloropropane	0.33	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichlorobenzene	0.13	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichloroethene, trans-	0.18	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,4-Dichloro-2-butene, trans-	0.33	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	2,2-Dichloropropane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	2-Butanone (MEK)	6	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	2-Hexanone (Methyl butyl ketone)	0.56	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Acetone	22	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Acrolein	6.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Acrylonitrile	0.43	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Bromobenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Bromochloromethane	0.23	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Bromoform (Tribromomethane)	0.2	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Carbon disulfide	0.92	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Carbon tetrachloride (Tetrachloromethane)	0.18	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Chlorobenzene	0.29	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Chloroform	0.31	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Chloromethane	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Chloropicrin	3.2	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Dibromomethane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Dichloromethane (Methylene chloride)	0.93	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Ethylene dibromide (1,2-Dibromoethane)	0.15	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	m,p-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	n-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Styrene	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Tetrahydrofuran	0.84	ND	ug/kg		
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-55A-150915-3-4	3-4	09/15/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1,1,2-Tetrachloroethane	0.3	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1,2-Trichloroethane	0.29	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1-Dichloroethene	0.25	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2,4-Trichlorobenzene	0.17	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dibromo-3-chloropropane	0.38	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichloroethene, trans-	0.2	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene	0.11	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene, cis-	0.11	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,4-Dichloro-2-butene, trans-	0.38	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	1,4-Dichlorobenzene	0.13	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	2-Butanone (MEK)	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	2-Chlorotoluene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	2-Hexanone (Methyl butyl ketone)	0.64	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Acetone	1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Acrolein	7.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Acrylonitrile	0.49	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Benzene	0.11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Bromobenzene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Bromochloromethane	0.26	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Bromomethane (Methyl bromide)	0.32	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Carbon tetrachloride (Tetrachloromethane)	0.2	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Chlorobenzene	0.33	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Chloroethane	0.3	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Chloroform	0.36	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Chloromethane	0.28	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Chloropicrin	3.7	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Dibromomethane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Dichlorodifluoromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	m,p-Xylene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Naphthalene	0.13	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	n-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	n-Propylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	o-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Styrene	0.39	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Tetrachloroethene (PCE)	0.13	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Tetrahydrofuran	0.96	ND	ug/kg		
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Toluene	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Total Xylene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.37	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-56A-150810-0-2	0-2	08/10/2015	Vinyl chloride	0.11	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	2-Hexanone (Methyl butyl ketone)	0.54	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Acetone	0.84	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Acrolein	6.5	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Bromobenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Bromochloromethane	0.22	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Bromomethane (Methyl bromide)	0.27	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Chloropicrin	3.1	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Dibromomethane	0.13	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Dichloromethane (Methylene chloride)	0.9	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	m,p-Xylene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	o-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Tetrahydrofuran	0.81	ND	ug/kg		
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-57B-150810-7-8	7-8	08/10/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1,1,2-Tetrachloroethane	0.27	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1,1-Trichloroethane	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1,2-Trichloroethane	0.26	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2,3-Trichlorobenzene	0.13	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2,4-Trichlorobenzene	0.16	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dibromo-3-chloropropane	0.34	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichlorobenzene	0.13	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichloroethene, trans-	0.18	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,2-Dichloropropane	0.2	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3-Dichlorobenzene	0.12	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,4-Dichloro-2-butene, trans-	0.34	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	2,2-Dichloropropane	0.19	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	2-Butanone (MEK)	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	2-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	2-Hexanone (Methyl butyl ketone)	0.57	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Acetone	0.89	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Acrolein	6.9	ND	ug/kg	85,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Acrylonitrile	0.44	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Bromobenzene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Bromochloromethane	0.24	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Bromodichloromethane	0.15	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Bromoform (Tribromomethane)	0.2	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Bromomethane (Methyl bromide)	0.29	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Carbon disulfide	0.94	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Carbon tetrachloride (Tetrachloromethane)	0.18	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Chlorobenzene	0.3	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Chloroethane	0.27	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Chloroform	0.32	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Chloromethane	0.25	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Chloropicrin	3.3	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Cymene, p- (4-Isopropyltoluene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Dibromomethane	0.14	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Dichloromethane (Methylene chloride)	0.94	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Ethylene dibromide (1,2-Dibromoethane)	0.15	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.2	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	m,p-Xylene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	n-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	n-Propylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	o-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Styrene	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	tert-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Tetrahydrofuran	0.85	ND	ug/kg		
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Toluene	0.17	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Total Xylene	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Trichloroethene (TCE)	0.11	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-58A-150810-5-7	5-7	08/10/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1,1,2-Tetrachloroethane	0.34	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1,1-Trichloroethane	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1,2,2-Tetrachloroethane	0.11	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1,2-Trichloroethane	0.33	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1-Dichloroethane	0.09	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1-Dichloroethene	0.28	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,1-Dichloropropene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2,3-Trichlorobenzene	0.16	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2,3-Trichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2,4-Trichlorobenzene	0.2	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2,4-Trimethylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dibromo-3-chloropropane	0.43	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichlorobenzene	0.16	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichloroethane	0.12	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichloroethene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichloroethene, cis-	0.15	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichloroethene, trans-	0.23	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,2-Dichloropropane	0.24	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.15	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3-Dichlorobenzene	0.14	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3-Dichloropropane	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3-Dichloropropene	0.13	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3-Dichloropropene, cis-	0.13	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,3-Dichloropropene, trans-	0.13	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,4-Dichloro-2-butene, trans-	0.42	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	1,4-Dichlorobenzene	0.15	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	2,2-Dichloropropane	0.24	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	2-Butanone (MEK)	5.7	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	2-Chlorotoluene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	2-Hexanone (Methyl butyl ketone)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	4-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Acetone	43		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Acrolein	8.7	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Acrylonitrile	0.55	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Benzene	0.13	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Bromobenzene	0.22	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Bromochloromethane	0.3	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Bromodichloromethane	0.19	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Bromoform (Tribromomethane)	0.25	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Bromomethane (Methyl bromide)	0.36	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Carbon disulfide	1.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Carbon tetrachloride (Tetrachloromethane)	0.23	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Chlorobenzene	0.38	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Chloroethane	0.34	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Chloroform	0.4	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Chloromethane	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Chloropicrin	4.2	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Cymene, p- (4-Isopropyltoluene)	0.13	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Dibromochloromethane	0.16	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Dibromomethane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Dichlorodifluoromethane	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Dichloromethane (Methylene chloride)	1.2	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Ethylbenzene	0.14	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Ethylene dibromide (1,2-Dibromoethane)	0.19	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.24	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Isopropylbenzene (Cumene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	m,p-Xylene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Methyl tert-butyl ether (MTBE)	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Naphthalene	0.15	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	n-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	n-Propylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	o-Xylene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	sec-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Styrene	0.43	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	tert-Butylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Tetrachloroethene (PCE)	0.15	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Tetrahydrofuran	1.1	ND	ug/kg		
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Toluene	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Total Xylene	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Trichloroethene (TCE)	0.13	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.42	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Vinyl acetate	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-59A-150810-5-6	5-6	08/10/2015	Vinyl chloride	0.13	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1,1,2-Tetrachloroethane	0.39	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1,1-Trichloroethane	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1,2,2-Tetrachloroethane	0.12	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1,2-Trichloroethane	0.37	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1-Dichloroethane	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1-Dichloroethene	0.32	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,1-Dichloropropene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2,3-Trichlorobenzene	0.18	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2,3-Trichloropropane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2,4-Trichlorobenzene	0.22	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2,4-Trimethylbenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dibromo-3-chloropropane	0.48	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichlorobenzene	0.19	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichloroethane	0.14	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichloroethene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichloroethene, cis-	0.18	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichloroethene, trans-	0.26	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,2-Dichloropropane	0.28	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.18	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3-Dichlorobenzene	0.16	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3-Dichloropropane	0.18	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3-Dichloropropene	0.14	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3-Dichloropropene, cis-	0.14	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,3-Dichloropropene, trans-	0.15	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,4-Dichloro-2-butene, trans-	0.48	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	1,4-Dichlorobenzene	0.17	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	2,2-Dichloropropane	0.28	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	2-Butanone (MEK)	0.33	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	2-Chlorotoluene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	2-Hexanone (Methyl butyl ketone)	0.82	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	4-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Acetone	1.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Acrolein	9.9	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Acrylonitrile	0.63	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Benzene	0.14	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Bromobenzene	0.26	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Bromochloromethane	0.34	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Bromodichloromethane	0.21	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Bromoform (Tribromomethane)	0.29	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Bromomethane (Methyl bromide)	0.41	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Carbon disulfide	1.4	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.26	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Chlorobenzene	0.43	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Chloroethane	0.39	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Chloroform	0.45	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Chloromethane	0.36	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Chloropicrin	4.7	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Cymene, p- (4-Isopropyltoluene)	0.15	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Dibromochloromethane	0.19	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Dibromomethane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Dichlorodifluoromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Dichloromethane (Methylene chloride)	1.4	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Ethylbenzene	0.16	ND	ug/kg	1,300,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.21	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.28	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Hexachloroethane	34	ND	ug/kg	93,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Isopropylbenzene (Cumene)	0.13	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	m,p-Xylene	0.24	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Methyl tert-butyl ether (MTBE)	0.1	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Naphthalene	0.17	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	n-Butylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	n-Propylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	o-Xylene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	sec-Butylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Styrene	0.49	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	tert-Butylbenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Tetrachloroethene (PCE)	0.17	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Tetrahydrofuran	1.2	ND	ug/kg		
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Toluene	0.46	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Total Xylene	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Trichloroethene (TCE)	0.15	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.48	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Vinyl acetate	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-60B-151104-4-5	4 - 5	11/04/2015	Vinyl chloride	0.14	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1,1,2-Tetrachloroethane	0.23	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	2-Butanone (MEK)	2.7	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	2-Hexanone (Methyl butyl ketone)	0.48	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Acetone	15	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Acrolein	5.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Acrylonitrile	0.37	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Bromobenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Bromochloromethane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Carbon disulfide	0.79	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Chlorobenzene	0.25	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Chloroethane	0.23	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Chloroform	0.27	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Chloropicrin	2.8	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Dibromomethane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Dichloromethane (Methylene chloride)	0.79	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	m,p-Xylene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	n-Butylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	n-Propylbenzene	0.08	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	o-Xylene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Styrene	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Tetrahydrofuran	0.72	ND	ug/kg		
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.28	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-64A-150827-5-6	5-6	08/27/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1,2-Trichloroethane	0.23	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dibromo-3-chloropropane	0.3	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,2-Dichloropropane	0.17	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	2-Butanone (MEK)	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	2-Hexanone (Methyl butyl ketone)	0.5	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Acetone	0.78	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Acrolein	6.1	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Acrylonitrile	0.39	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Bromobenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Bromochloromethane	0.21	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Carbon disulfide	0.83	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Chlorobenzene	0.26	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Chloroform	0.28	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Chloromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Chloropicrin	2.9	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Dibromomethane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Dichloromethane (Methylene chloride)	0.83	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.17	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	m,p-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	n-Propylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	o-Xylene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Styrene	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Tetrahydrofuran	0.75	ND	ug/kg		
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.29	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-65A-150915-5-7	5-7	09/15/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1,1,2-Tetrachloroethane	0.34	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1,1-Trichloroethane	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1,2,2-Tetrachloroethane	0.11	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1,2-Trichloroethane	0.33	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1-Dichloroethane	0.09	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1-Dichloroethene	0.28	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,1-Dichloropropene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2,3-Trichlorobenzene	0.16	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2,3-Trichloropropane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2,4-Trichlorobenzene	0.2	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2,4-Trimethylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dibromo-3-chloropropane	0.43	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichlorobenzene	0.17	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichloroethane	0.12	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichloroethene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichloroethene, cis-	0.16	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichloroethene, trans-	0.23	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,2-Dichloropropane	0.25	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.16	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3-Dichlorobenzene	0.15	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3-Dichloropropane	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3-Dichloropropene	0.13	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3-Dichloropropene, cis-	0.13	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,3-Dichloropropene, trans-	0.13	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,4-Dichloro-2-butene, trans-	0.42	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	1,4-Dichlorobenzene	0.15	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	2,2-Dichloropropane	0.24	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	2-Butanone (MEK)	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	2-Chlorotoluene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	2-Hexanone (Methyl butyl ketone)	0.72	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	4-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Acetone	5.6	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Acrolein	8.8	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Acrylonitrile	0.56	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Benzene	0.13	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Bromobenzene	0.22	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Bromochloromethane	0.3	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Bromodichloromethane	0.19	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Bromoform (Tribromomethane)	0.26	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Bromomethane (Methyl bromide)	0.37	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Carbon disulfide	1.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.23	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Chlorobenzene	0.38	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Chloroethane	0.34	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Chloroform	0.4	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Chloromethane	0.32	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Chloropicrin	4.2	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Cymene, p- (4-Isopropyltoluene)	1.7		ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Dibromochloromethane	0.17	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Dibromomethane	0.18	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Dichlorodifluoromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Dichloromethane (Methylene chloride)	2.8	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Ethylbenzene	0.14	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.19	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.25	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Hexachloroethane	33	ND	ug/kg	93,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Isopropylbenzene (Cumene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	m,p-Xylene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Methyl tert-butyl ether (MTBE)	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Naphthalene	0.15	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	n-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	n-Propylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	o-Xylene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	sec-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Styrene	0.44	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	tert-Butylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Tetrachloroethene (PCE)	0.15	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Tetrahydrofuran	1.1	ND	ug/kg		
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Toluene	0.31	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Total Xylene	0.19	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Trichloroethene (TCE)	0.14	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.42	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Vinyl acetate	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-67A-151104-2-3	2 - 3	11/04/2015	Vinyl chloride	0.13	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1,1,2-Tetrachloroethane	0.57	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1,1-Trichloroethane	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1,2,2-Tetrachloroethane	0.18	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1,2-Trichloroethane	0.54	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1-Dichloroethane	0.15	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1-Dichloroethene	0.47	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,1-Dichloropropene	0.25	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2,3-Trichlorobenzene	0.26	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2,3-Trichloropropane	0.29	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2,4-Trichlorobenzene	0.32	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2,4-Trimethylbenzene	0.25	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dibromo-3-chloropropane	0.7	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichlorobenzene	0.27	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethane	0.2	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene	0.25	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene, cis-	0.25	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene, trans-	0.38	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,2-Dichloropropane	0.41	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.26	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3-Dichlorobenzene	0.24	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropane	0.26	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene	0.21	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene, cis-	0.21	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene, trans-	0.22	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,4-Dichloro-2-butene, trans-	0.7	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	1,4-Dichlorobenzene	0.25	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	2,2-Dichloropropane	0.4	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	2-Butanone (MEK)	0.48	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	2-Chlorotoluene	0.28	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	2-Hexanone (Methyl butyl ketone)	1.2	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	4-Chlorotoluene	0.24	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Acetone	1.8	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Acrolein	14	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Acrylonitrile	0.92	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Benzene	0.21	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Bromobenzene	0.37	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Bromochloromethane	0.49	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Bromodichloromethane	0.31	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Bromoform (Tribromomethane)	0.42	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Bromomethane (Methyl bromide)	0.6	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Carbon disulfide	2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Carbon tetrachloride (Tetrachloromethane)	0.37	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Chlorobenzene	0.62	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Chloroethane	0.56	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Chloroform	0.66	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Chloromethane	0.52	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Chloropicrin	6.9	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Cymene, p- (4-Isopropyltoluene)	0.22	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Dibromochloromethane	0.27	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Dibromomethane	0.29	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Dichlorodifluoromethane	0.34	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Dichloromethane (Methylene chloride)	2	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Ethylbenzene	0.23	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Ethylene dibromide (1,2-Dibromoethane)	0.31	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.41	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Isopropylbenzene (Cumene)	0.18	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	m,p-Xylene	0.35	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.43	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Methyl tert-butyl ether (MTBE)	0.15	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Naphthalene	0.25	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	n-Butylbenzene	0.2	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	n-Propylbenzene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	o-Xylene	0.31	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	sec-Butylbenzene	0.22	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Styrene	0.72	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	tert-Butylbenzene	0.24	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Tetrachloroethene (PCE)	0.25	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Tetrahydrofuran	1.8	ND	ug/kg		
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Toluene	0.35	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Total Xylene	0.31	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Trichloroethene (TCE)	0.22	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.69	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Vinyl acetate	0.24	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-68A-150917-0-1	0-1	09/17/2015	Vinyl chloride	0.21	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1,1,2-Tetrachloroethane	0.38	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1,1-Trichloroethane	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1,2,2-Tetrachloroethane	0.12	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1,2-Trichloroethane	0.36	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1-Dichloroethane	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1-Dichloroethene	0.31	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,1-Dichloropropene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2,3-Trichlorobenzene	0.18	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2,3-Trichloropropane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2,4-Trichlorobenzene	0.22	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2,4-Trimethylbenzene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dibromo-3-chloropropane	0.48	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichlorobenzene	0.18	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichloroethane	0.14	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichloroethene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichloroethene, cis-	0.17	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichloroethene, trans-	0.25	ND	ug/kg	3,400,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,2-Dichloropropane	0.27	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.17	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3-Dichlorobenzene	0.16	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3-Dichloropropane	0.17	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3-Dichloropropene	0.14	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3-Dichloropropene, cis-	0.14	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,3-Dichloropropene, trans-	0.14	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,4-Dichloro-2-butene, trans-	0.47	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	1,4-Dichlorobenzene	0.17	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	2,2-Dichloropropane	0.27	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	2-Butanone (MEK)	14		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	2-Chlorotoluene	0.19	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	2-Hexanone (Methyl butyl ketone)	0.8	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	4-Chlorotoluene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Acetone	44		ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Acrolein	9.7	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Acrylonitrile	0.62	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Benzene	0.14	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Bromobenzene	0.25	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Bromochloromethane	0.33	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Bromodichloromethane	0.21	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Bromoform (Tribromomethane)	0.28	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Bromomethane (Methyl bromide)	0.41	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Carbon disulfide	1.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Carbon tetrachloride (Tetrachloromethane)	0.25	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Chlorobenzene	0.42	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Chloroethane	0.38	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Chloroform	0.44	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Chloromethane	0.35	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Chloropicrin	4.6	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Cymene, p- (4-Isopropyltoluene)	0.15	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Dibromochloromethane	0.18	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Dibromomethane	0.2	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Dichlorodifluoromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Dichloromethane (Methylene chloride)	1.3	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Ethylbenzene	0.15	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Ethylene dibromide (1,2-Dibromoethane)	0.21	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.27	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Isopropylbenzene (Cumene)	0.12	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	m,p-Xylene	0.24	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Methyl tert-butyl ether (MTBE)	0.1	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Naphthalene	0.17	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	n-Butylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	n-Propylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	o-Xylene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	sec-Butylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Styrene	0.48	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	tert-Butylbenzene	0.16	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Tetrachloroethene (PCE)	0.17	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Tetrahydrofuran	1.2	ND	ug/kg		
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Toluene	0.23	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Total Xylene	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Trichloroethene (TCE)	0.15	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.47	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Vinyl acetate	0.16	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-69A-150917-10-12	10-12	09/17/2015	Vinyl chloride	0.14	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1,1,2-Tetrachloroethane	0.34	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1,1-Trichloroethane	0.12	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1,2,2-Tetrachloroethane	0.11	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1,2-Trichloroethane	0.32	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1-Dichloroethane	0.09	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1-Dichloroethene	0.28	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,1-Dichloropropene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2,3-Trichlorobenzene	0.16	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2,3-Trichloropropane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2,4-Trichlorobenzene	0.19	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2,4-Trimethylbenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dibromo-3-chloropropane	0.42	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichlorobenzene	0.16	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethane	0.12	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene, cis-	0.15	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichloroethene, trans-	0.22	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,2-Dichloropropane	0.24	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.15	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3-Dichlorobenzene	0.14	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropane	0.15	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene	0.12	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene, cis-	0.12	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,3-Dichloropropene, trans-	0.13	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,4-Dichloro-2-butene, trans-	0.42	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	1,4-Dichlorobenzene	0.15	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	2,2-Dichloropropane	0.24	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	2-Butanone (MEK)	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	2-Chlorotoluene	0.17	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	2-Hexanone (Methyl butyl ketone)	0.71	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	4-Chlorotoluene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Acetone	1.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Acrolein	8.6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Acrylonitrile	0.55	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Benzene	0.12	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Bromobenzene	0.22	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Bromochloromethane	0.29	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Bromodichloromethane	0.18	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Bromoform (Tribromomethane)	0.25	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Bromomethane (Methyl bromide)	0.36	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Carbon disulfide	1.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Carbon tetrachloride (Tetrachloromethane)	0.22	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Chlorobenzene	0.37	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Chloroethane	0.34	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Chloroform	0.39	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Chloromethane	0.31	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Chloropicrin	4.1	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Cymene, p- (4-Isopropyltoluene)	0.13	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Dibromochloromethane	0.16	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Dibromomethane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Dichlorodifluoromethane	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Dichloromethane (Methylene chloride)	1.2	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Ethylbenzene	0.14	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Ethylene dibromide (1,2-Dibromoethane)	0.18	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.24	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Isopropylbenzene (Cumene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	m,p-Xylene	0.21	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.26	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Methyl tert-butyl ether (MTBE)	0.09	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Naphthalene	0.15	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	n-Butylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	n-Propylbenzene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	o-Xylene	0.18	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	sec-Butylbenzene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Styrene	0.43	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	tert-Butylbenzene	0.14	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Tetrachloroethene (PCE)	0.15	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Tetrahydrofuran	1.1	ND	ug/kg		
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Toluene	0.21	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Total Xylene	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Trichloroethene (TCE)	0.13	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.41	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Vinyl acetate	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-70A-150917-0-1	0-1	09/17/2015	Vinyl chloride	0.12	ND	ug/kg	480	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dibromo-3-chloropropane	0.29	ND	ug/kg	3,200	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,2-Dichloropropane	0.17	ND	ug/kg	390,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,4-Dichloro-2-butene, trans-	0.29	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	2-Butanone (MEK)	0.2	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	2-Hexanone (Methyl butyl ketone)	0.49	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Acetone	13	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Acrolein	6	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Acrylonitrile	0.38	ND	ug/kg	26,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Bromobenzene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Bromochloromethane	0.2	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Bromomethane (Methyl bromide)	0.25	ND	ug/kg	240,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Carbon disulfide	0.82	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Chlorobenzene	0.26	ND	ug/kg	3,400,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Chloroethane	0.23	ND	ug/kg	1,700,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Chloroform	0.27	ND	ug/kg	460,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Chloromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Chloropicrin	2.9	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Dibromomethane	0.12	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Dichloromethane (Methylene chloride)	2	J	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.17	ND	ug/kg	130,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Hexachloroethane	32	ND	ug/kg	93,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	m,p-Xylene	0.15	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.18	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	n-Propylbenzene	0.08	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	o-Xylene	0.13	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Styrene	0.3	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Tetrahydrofuran	0.74	ND	ug/kg		
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Toluene	0.2	J	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.29	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Landfill 2	SB-LF2-71A-151104-1-2	1 - 2	11/04/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1,2-Trichloroethane	0.21	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	2-Hexanone (Methyl butyl ketone)	0.47	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Acetone	0.73	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Acrolein	5.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Acrylonitrile	0.36	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Bromochloromethane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Carbon disulfide	0.78	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Chlorobenzene	0.24	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Chloroform	0.26	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Chloropicrin	2.7	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Dichloromethane (Methylene chloride)	0.78	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Tetrahydrofuran	0.7	ND	ug/kg		
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A1-150803-3-4	3-4	08/03/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1,1,2-Tetrachloroethane	0.2	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1,2-Trichloroethane	0.2	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1-Dichloroethene	0.17	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,1-Dichloropropene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2,4-Trichlorobenzene	0.12	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2,4-Trimethylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dibromo-3-chloropropane	0.25	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichlorobenzene	0.1	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichloroethene, trans-	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,2-Dichloropropane	0.15	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3-Dichlorobenzene	0.09	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,3-Dichloropropene, trans-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,4-Dichloro-2-butene, trans-	0.25	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	1,4-Dichlorobenzene	0.09	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	2,2-Dichloropropane	0.14	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	2-Butanone (MEK)	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	2-Hexanone (Methyl butyl ketone)	0.43	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Acetone	0.66	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Acrolein	5.2	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Acrylonitrile	0.33	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Bromobenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Bromochloromethane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Bromodichloromethane	0.11	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Bromoform (Tribromomethane)	0.15	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Bromomethane (Methyl bromide)	0.22	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Carbon disulfide	0.71	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Carbon tetrachloride (Tetrachloromethane)	0.13	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Chlorobenzene	0.22	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Chloroethane	0.2	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Chloroform	0.24	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Chloromethane	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Chloropicrin	2.5	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Dibromochloromethane	0.1	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Dibromomethane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Dichlorodifluoromethane	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Dichloromethane (Methylene chloride)	0.71	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Ethylene dibromide (1,2-Dibromoethane)	0.11	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.15	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	m,p-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Naphthalene	0.09	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	n-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	o-Xylene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	sec-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Styrene	0.26	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	tert-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Tetrahydrofuran	0.64	ND	ug/kg		
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Total Xylene	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.25	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A2-150803-3-4	3-4	08/03/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.31	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.53	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Acetone	0.83	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Acrolein	6.5	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.41	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Bromobenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.22	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.27	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.88	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Chloroethane	0.25	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Chloropicrin	3.1	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.88	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	o-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Styrene	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.11	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.8	ND	ug/kg		
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-A3-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.24	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.13	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.24	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.4	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Acetone	0.63	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Acrolein	4.9	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.31	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Bromobenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.17	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.67	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.13	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Chloromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Chloropicrin	2.3	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Dibromomethane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.67	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	o-Xylene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.6	ND	ug/kg		
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B1-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1,2-Trichloroethane	0.21	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2,4-Trichlorobenzene	0.12	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dibromo-3-chloropropane	0.27	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichlorobenzene	0.1	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, trans-	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3-Dichlorobenzene	0.09	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, trans-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,4-Dichloro-2-butene, trans-	0.27	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	2-Hexanone (Methyl butyl ketone)	0.46	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Acetone	0.71	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Acrolein	5.5	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Acrylonitrile	0.35	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Bromobenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Bromochloromethane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Bromoform (Tribromomethane)	0.16	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Bromomethane (Methyl bromide)	0.23	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Carbon disulfide	0.76	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Carbon tetrachloride (Tetrachloromethane)	0.14	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Chlorobenzene	0.24	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Chloroform	0.25	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Chloromethane	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Chloropicrin	2.6	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Dibromochloromethane	0.1	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Dibromomethane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Dichloromethane (Methylene chloride)	0.76	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	sec-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	tert-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Tetrahydrofuran	0.68	ND	ug/kg		
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Toluene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B2-150805-2-3	2-3	08/05/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1,1,2-Tetrachloroethane	0.23	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dibromo-3-chloropropane	0.29	ND	ug/kg	3,200	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	2-Butanone (MEK)	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	2-Hexanone (Methyl butyl ketone)	0.48	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Acetone	0.75	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Acrolein	5.8	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Acrylonitrile	0.37	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Bromochloromethane	0.2	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Carbon disulfide	0.8	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Chlorobenzene	0.25	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Chloroethane	0.23	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Chloroform	0.27	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Chloropicrin	2.8	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Dichloromethane (Methylene chloride)	0.8	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Styrene	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Tetrahydrofuran	0.72	ND	ug/kg		
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B3-150805-2-3	2-3	08/05/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1,1,2-Tetrachloroethane	0.38	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1,1-Trichloroethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1,2,2-Tetrachloroethane	0.12	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1,2-Trichloroethane	0.36	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1-Dichloroethane	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1-Dichloroethene	0.31	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,1-Dichloropropene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2,3-Trichlorobenzene	0.17	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2,3-Trichloropropane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2,4-Trichlorobenzene	0.21	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2,4-Trimethylbenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dibromo-3-chloropropane	0.47	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichlorobenzene	0.18	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichloroethane	0.13	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichloroethene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichloroethene, cis-	0.17	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichloroethene, trans-	0.25	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,2-Dichloropropane	0.27	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.17	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3-Dichlorobenzene	0.16	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3-Dichloropropane	0.17	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3-Dichloropropene	0.14	ND	ug/kg	140,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3-Dichloropropene, cis-	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,3-Dichloropropene, trans-	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,4-Dichloro-2-butene, trans-	0.46	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	1,4-Dichlorobenzene	0.16	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	2,2-Dichloropropane	0.27	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	2-Butanone (MEK)	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	2-Chlorotoluene	0.19	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	2-Hexanone (Methyl butyl ketone)	0.78	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	4-Chlorotoluene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Acetone	1.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Acrolein	9.5	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Acrylonitrile	0.61	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Benzene	0.14	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Bromobenzene	0.24	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Bromochloromethane	0.32	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Bromodichloromethane	0.2	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Bromoform (Tribromomethane)	0.28	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Bromomethane (Methyl bromide)	0.4	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Carbon disulfide	1.3	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.25	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Chlorobenzene	0.41	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Chloroethane	0.37	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Chloroform	0.44	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Chloromethane	0.35	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Chloropicrin	4.6	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Cymene, p- (4-Isopropyltoluene)	0.15	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Dibromochloromethane	0.18	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Dibromomethane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Dichlorodifluoromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Dichloromethane (Methylene chloride)	1.3	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Ethylbenzene	0.15	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.2	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.27	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Isopropylbenzene (Cumene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	m,p-Xylene	0.23	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Methyl tert-butyl ether (MTBE)	0.1	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Naphthalene	0.16	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	n-Butylbenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	n-Propylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	o-Xylene	0.2	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	sec-Butylbenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Styrene	0.47	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	tert-Butylbenzene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Tetrachloroethene (PCE)	0.16	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Tetrahydrofuran	1.2	ND	ug/kg		
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Toluene	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Total Xylene	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Trichloroethene (TCE)	0.15	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.46	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Vinyl acetate	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-B4-150825-2-3	2-3	08/25/2015	Vinyl chloride	0.14	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.24	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.13	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.24	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.14	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.41	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Acetone	0.63	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Acrolein	4.9	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.31	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Bromobenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.17	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.21	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.67	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.13	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Chloromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Chloropicrin	2.4	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Dibromomethane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.67	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.11	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	o-Xylene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.61	ND	ug/kg		
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C1-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1,2-Trichloroethane	0.21	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	2-Hexanone (Methyl butyl ketone)	0.47	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Acetone	0.73	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Acrolein	5.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Acrylonitrile	0.36	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Bromochloromethane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Bromoform (Tribromomethane)	0.16	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Carbon disulfide	0.77	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Chlorobenzene	0.24	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Chloroform	0.26	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Chloropicrin	2.7	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Dichloromethane (Methylene chloride)	0.78	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Tetrahydrofuran	0.7	ND	ug/kg		
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C2-150805-2-3	2-3	08/05/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,4-Dichloro-2-butene, trans-	0.31	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	2-Hexanone (Methyl butyl ketone)	0.53	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Acetone	0.83	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Acrolein	6.4	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Acrylonitrile	0.41	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Bromobenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Bromochloromethane	0.22	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Bromomethane (Methyl bromide)	0.27	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Carbon disulfide	0.88	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Chloroethane	0.25	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Chloropicrin	3.1	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Dichloromethane (Methylene chloride)	0.88	ND	ug/kg	1,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	m,p-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	o-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Styrene	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Tetrahydrofuran	0.8	ND	ug/kg		
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-C3-150805-1-3	1-3	08/05/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.31	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.52	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Acetone	0.8	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Acrolein	6.2	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.4	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Bromobenzene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.21	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.85	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Chloroform	0.29	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Chloromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Chloropicrin	3	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.86	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.09	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	o-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Styrene	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.77	ND	ug/kg		
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D1-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.23	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.47	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Acetone	0.74	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Acrolein	5.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Acrylonitrile	0.37	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Bromochloromethane	0.2	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Carbon disulfide	0.78	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Chlorobenzene	0.25	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Chloroform	0.26	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Chloropicrin	2.7	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Dichloromethane (Methylene chloride)	0.79	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Styrene	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Tetrahydrofuran	0.71	ND	ug/kg		
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.28	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D2-150806-2-3	2-3	08/06/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.47	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Acetone	0.84	J	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Acrolein	5.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Acrylonitrile	0.36	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Bromochloromethane	0.2	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Carbon disulfide	0.78	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Chlorobenzene	0.25	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Chloroform	0.3	J	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Chloropicrin	2.7	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Dichloromethane (Methylene chloride)	0.78	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Tetrahydrofuran	0.7	ND	ug/kg		
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-D3-150806-1.5-3	1.5-3	08/06/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1,2-Trichloroethane	0.23	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.3	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,2-Dichloropropane	0.17	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	2-Butanone (MEK)	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.51	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Acetone	0.79	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Acrolein	6.2	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Acrylonitrile	0.39	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Bromobenzene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Bromochloromethane	0.21	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Carbon disulfide	0.84	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Chloroform	0.28	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Chloromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Chloropicrin	3	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Dichloromethane (Methylene chloride)	0.84	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.17	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	m,p-Xylene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	o-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Styrene	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Tetrahydrofuran	0.76	ND	ug/kg		
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E1-150804-1-3	1-3	08/04/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.31	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1,2-Trichloroethane	0.3	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1-Dichloroethene	0.25	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2,4-Trichlorobenzene	0.18	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.38	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, trans-	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene	0.11	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, cis-	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.38	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	1,4-Dichlorobenzene	0.13	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	2-Butanone (MEK)	0.26	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	2-Chlorotoluene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.65	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Acetone	1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Acrolein	7.8	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Acrylonitrile	0.5	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Benzene	0.11	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Bromobenzene	0.2	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Bromochloromethane	0.27	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Bromomethane (Methyl bromide)	0.33	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.2	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Chlorobenzene	0.34	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Chloroethane	0.31	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Chloroform	0.36	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Chloromethane	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Chloropicrin	3.8	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Dibromomethane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Dichlorodifluoromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	m,p-Xylene	0.19	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Naphthalene	0.13	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	n-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	n-Propylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	o-Xylene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Styrene	0.39	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Tetrachloroethene (PCE)	0.14	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Tetrahydrofuran	0.97	ND	ug/kg		
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Toluene	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Total Xylene	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.38	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E2-150806-2-3	2-3	08/06/2015	Vinyl chloride	0.11	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1-Dichloroethene	0.2	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.31	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.3	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	2-Butanone (MEK)	0.21	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.52	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Acetone	0.8	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Acrolein	6.3	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Acrylonitrile	0.4	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Bromobenzene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Bromochloromethane	0.21	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Bromoform (Tribromomethane)	0.18	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Bromomethane (Methyl bromide)	0.26	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Carbon disulfide	0.86	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Chlorobenzene	0.27	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Chloroethane	0.24	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Chloroform	0.29	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Chloromethane	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Chloropicrin	3	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Dichloromethane (Methylene chloride)	0.86	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	m,p-Xylene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	o-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Styrene	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Tetrahydrofuran	0.77	ND	ug/kg		
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Toluene	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.3	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-E3-150806-1-3	1-3	08/06/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.24	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.11	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.29	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.16	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.17	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.11	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.29	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.17	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.49	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Acetone	0.77	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Acrolein	6	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.38	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.2	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.13	ND	ug/kg	230,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.25	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.82	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.16	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.26	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Chloroethane	0.23	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Chloroform	0.27	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Chloromethane	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Chloropicrin	2.9	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.82	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.13	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.17	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	o-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Styrene	0.3	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.74	ND	ug/kg		
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Total Xylene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F1-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.21	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1,2-Trichloroethane	0.2	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2,4-Trichlorobenzene	0.12	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.26	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichlorobenzene	0.1	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, trans-	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,2-Dichloropropane	0.15	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3-Dichlorobenzene	0.09	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, trans-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.26	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	1,4-Dichlorobenzene	0.09	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	2,2-Dichloropropane	0.15	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	2-Butanone (MEK)	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.45	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Acetone	2	J	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Acrolein	5.4	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Acrylonitrile	0.34	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Bromobenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Bromochloromethane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Bromoform (Tribromomethane)	0.16	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Bromomethane (Methyl bromide)	0.23	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Carbon disulfide	0.74	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.14	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Chlorobenzene	0.23	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Chloroethane	0.21	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Chloroform	0.25	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Chloromethane	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Chloropicrin	2.6	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.08	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Dibromochloromethane	0.1	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Dibromomethane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Dichloromethane (Methylene chloride)	0.74	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.15	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	m,p-Xylene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Naphthalene	0.09	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	sec-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Styrene	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	tert-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Tetrachloroethene (PCE)	0.09	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Tetrahydrofuran	0.67	ND	ug/kg		
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Toluene	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Trichloroethene (TCE)	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.26	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F2-150806-1-3	1-3	08/06/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.25	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1,2-Trichloroethane	0.24	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethene	0.21	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloropropene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trichlorobenzene	0.14	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trimethylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, cis-	0.11	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloropropane	0.18	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene	0.09	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, cis-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.31	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.53	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Acetone	0.83	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Acrolein	6.4	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Acrylonitrile	0.41	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Benzene	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Bromobenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Bromochloromethane	0.22	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Bromomethane (Methyl bromide)	0.27	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Carbon disulfide	0.88	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Chloroethane	0.25	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Chloropicrin	3.1	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Dibromochloromethane	0.12	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Dichlorodifluoromethane	0.15	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Dichloromethane (Methylene chloride)	0.88	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.18	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Isopropylbenzene (Cumene)	0.08	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	m,p-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	o-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Styrene	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Tetrachloroethene (PCE)	0.11	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Tetrahydrofuran	0.8	ND	ug/kg		
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.31	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Vinyl acetate	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-F3-150806-1.5-3	1.5-3	08/06/2015	Vinyl chloride	0.09	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.4	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Acetone	0.61	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Acrolein	4.8	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Bromobenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Bromochloromethane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Carbon disulfide	0.65	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Chloropicrin	2.3	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Dibromomethane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Dichloromethane (Methylene chloride)	0.65	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	m,p-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	n-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	o-Xylene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Tetrahydrofuran	0.59	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G1-150804-2-3	2-3	08/04/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2,3-Trichloropropane	0.14	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.33	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichlorobenzene	0.13	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethane	0.1	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloroethene, trans-	0.18	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.33	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	1,4-Dichlorobenzene	0.12	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	2,2-Dichloropropane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	2-Butanone (MEK)	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.56	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Acetone	0.86	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Acrolein	6.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Acrylonitrile	0.43	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Bromobenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Bromochloromethane	0.23	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Bromoform (Tribromomethane)	0.2	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Carbon disulfide	0.92	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.18	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Chlorobenzene	0.29	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Chloroform	0.31	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Chloropicrin	3.2	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Dibromomethane	0.14	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Dichloromethane (Methylene chloride)	0.92	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Ethylbenzene	0.11	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	m,p-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Naphthalene	0.12	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	n-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	o-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Styrene	0.34	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Tetrahydrofuran	0.83	ND	ug/kg		
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G2-150806-1.5-3	1.5-3	08/06/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.23	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1,2-Trichloroethane	0.22	ND	ug/kg	250,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1-Dichloroethene	0.19	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2,3-Trichloropropane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.48	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	4-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Acetone	0.74	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Acrolein	5.8	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Acrylonitrile	0.37	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Bromochloromethane	0.2	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Carbon disulfide	0.79	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Chlorobenzene	0.25	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Chloroform	0.26	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Chloropicrin	2.8	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Dichlorodifluoromethane	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Dichloromethane (Methylene chloride)	0.79	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Styrene	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Tetrahydrofuran	0.71	ND	ug/kg		
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-G3-150806-2-3	2-3	08/06/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1,1,2-Tetrachloroethane	0.26	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1,1-Trichloroethane	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1,2,2-Tetrachloroethane	0.08	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1,2-Trichloroethane	0.25	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1-Dichloroethane	0.07	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1-Dichloroethene	0.22	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,1-Dichloropropene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2,3-Trichlorobenzene	0.12	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2,3-Trichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2,4-Trichlorobenzene	0.15	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2,4-Trimethylbenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dibromo-3-chloropropane	0.32	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichlorobenzene	0.12	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethane	0.09	ND	ug/kg	160,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene, cis-	0.12	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichloroethene, trans-	0.17	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,2-Dichloropropane	0.19	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3-Dichlorobenzene	0.11	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropane	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene	0.1	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene, cis-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,3-Dichloropropene, trans-	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,4-Dichloro-2-butene, trans-	0.32	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	1,4-Dichlorobenzene	0.11	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	2,2-Dichloropropane	0.18	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	2-Butanone (MEK)	0.22	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	2-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	2-Hexanone (Methyl butyl ketone)	0.55	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	4-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Acetone	0.85	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Acrolein	6.6	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Acrylonitrile	0.42	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Benzene	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Bromobenzene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Bromochloromethane	0.23	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Bromodichloromethane	0.14	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Bromoform (Tribromomethane)	0.19	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Bromomethane (Methyl bromide)	0.28	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Carbon disulfide	0.9	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Carbon tetrachloride (Tetrachloromethane)	0.17	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Chlorobenzene	0.28	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Chloroethane	0.26	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Chloroform	0.3	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Chloromethane	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Chloropicrin	3.2	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Cymene, p- (4-Isopropyltoluene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Dibromochloromethane	0.13	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Dibromomethane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Dichlorodifluoromethane	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Dichloromethane (Methylene chloride)	0.91	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Ethylbenzene	0.1	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Ethylene dibromide (1,2-Dibromoethane)	0.14	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.19	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Isopropylbenzene (Cumene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	m,p-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.2	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Methyl tert-butyl ether (MTBE)	0.07	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Naphthalene	0.11	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	n-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	n-Propylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	o-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	sec-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Styrene	0.33	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	tert-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Tetrachloroethene (PCE)	0.12	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Tetrahydrofuran	0.82	ND	ug/kg		
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Toluene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Total Xylene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Trichloroethene (TCE)	0.1	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.32	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Vinyl acetate	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H1-150804-1-3	1-3	08/04/2015	Vinyl chloride	0.1	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.22	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1,1-Trichloroethane	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.07	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1,2-Trichloroethane	0.21	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1-Dichloroethane	0.06	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1-Dichloroethene	0.18	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,1-Dichloropropene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2,3-Trichlorobenzene	0.1	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2,3-Trichloropropane	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2,4-Trichlorobenzene	0.13	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2,4-Trimethylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.28	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichlorobenzene	0.11	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethane	0.08	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, cis-	0.1	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichloroethene, trans-	0.15	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,2-Dichloropropane	0.16	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3-Dichlorobenzene	0.1	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropane	0.1	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene	0.08	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, cis-	0.08	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,3-Dichloropropene, trans-	0.09	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.28	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	1,4-Dichlorobenzene	0.1	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	2,2-Dichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	2-Butanone (MEK)	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	2-Chlorotoluene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.47	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	4-Chlorotoluene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Acetone	0.73	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Acrolein	5.7	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Acrylonitrile	0.36	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Benzene	0.08	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Bromobenzene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Bromochloromethane	0.19	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Bromodichloromethane	0.12	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Bromoform (Tribromomethane)	0.17	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Bromomethane (Methyl bromide)	0.24	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Carbon disulfide	0.78	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.15	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Chlorobenzene	0.24	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Chloroethane	0.22	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Chloroform	0.26	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Chloromethane	0.21	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Chloropicrin	2.7	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Dibromochloromethane	0.11	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Dibromomethane	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Dichlorodifluoromethane	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Dichloromethane (Methylene chloride)	0.78	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Ethylbenzene	0.09	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.12	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.16	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Isopropylbenzene (Cumene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	m,p-Xylene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.06	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Naphthalene	0.1	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	n-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	n-Propylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	o-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	sec-Butylbenzene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Styrene	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	tert-Butylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Tetrachloroethene (PCE)	0.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Tetrahydrofuran	0.7	ND	ug/kg		
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Toluene	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Total Xylene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Trichloroethene (TCE)	0.09	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Vinyl acetate	0.09	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H2-150806-1-3	1-3	08/06/2015	Vinyl chloride	0.08	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1,1,2-Tetrachloroethane	0.3	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1,1-Trichloroethane	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1,2-Trichloroethane	0.29	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1-Dichloroethene	0.25	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,1-Dichloropropene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2,3-Trichloropropane	0.15	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2,4-Trichlorobenzene	0.17	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2,4-Trimethylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dibromo-3-chloropropane	0.37	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichlorobenzene	0.14	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, cis-	0.13	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichloroethene, trans-	0.2	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene	0.11	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, cis-	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,3-Dichloropropene, trans-	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,4-Dichloro-2-butene, trans-	0.37	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	1,4-Dichlorobenzene	0.13	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	2,2-Dichloropropane	0.21	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	2-Butanone (MEK)	0.26	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	2-Chlorotoluene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.63	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	4-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Acetone	5.1	J	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Acrolein	7.6	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Acrylonitrile	0.48	ND	ug/kg	26,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Benzene	0.11	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Bromobenzene	0.2	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Bromochloromethane	0.26	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Bromodichloromethane	0.16	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Bromoform (Tribromomethane)	0.22	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Bromomethane (Methyl bromide)	0.32	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Carbon disulfide	1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.2	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Chlorobenzene	0.33	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Chloroethane	0.3	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Chloroform	0.35	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Chloromethane	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Chloropicrin	3.6	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Dibromochloromethane	0.14	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Dibromomethane	0.15	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Dichlorodifluoromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Dichloromethane (Methylene chloride)	1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.16	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	m,p-Xylene	0.19	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Naphthalene	0.13	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	n-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	n-Propylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	o-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	sec-Butylbenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Styrene	0.38	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Tetrachloroethene (PCE)	0.13	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Tetrahydrofuran	0.94	ND	ug/kg		
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Toluene	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Total Xylene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.36	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Vinyl acetate	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-H3-150806-2-3	2-3	08/06/2015	Vinyl chloride	0.11	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1,1,2-Tetrachloroethane	0.19	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1,1-Trichloroethane	0.07	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1,2,2-Tetrachloroethane	0.06	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1,2-Trichloroethane	0.18	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1-Dichloroethane	0.05	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1-Dichloroethene	0.16	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,1-Dichloropropene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2,3-Trichlorobenzene	0.09	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2,3-Trichloropropane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2,4-Trichlorobenzene	0.11	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2,4-Trimethylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dibromo-3-chloropropane	0.23	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichlorobenzene	0.09	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichloroethane	0.07	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichloroethene	0.09	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichloroethene, cis-	0.09	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichloroethene, trans-	0.12	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,2-Dichloropropane	0.14	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.09	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3-Dichlorobenzene	0.08	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3-Dichloropropane	0.09	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3-Dichloropropene	0.07	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3-Dichloropropene, cis-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,3-Dichloropropene, trans-	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,4-Dichloro-2-butene, trans-	0.23	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	1,4-Dichlorobenzene	0.08	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	2,2-Dichloropropane	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	2-Butanone (MEK)	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	2-Chlorotoluene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	2-Hexanone (Methyl butyl ketone)	0.39	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	4-Chlorotoluene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Acetone	0.61	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Acrolein	4.8	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Acrylonitrile	0.3	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Benzene	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Bromobenzene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Bromochloromethane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Bromodichloromethane	0.1	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Bromoform (Tribromomethane)	0.14	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Bromomethane (Methyl bromide)	0.2	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Carbon disulfide	0.65	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Carbon tetrachloride (Tetrachloromethane)	0.12	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Chlorobenzene	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Chloroethane	0.19	ND	ug/kg	1,700,000	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Chloroform	0.22	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Chloromethane	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Chloropicrin	2.3	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Cymene, p- (4-Isopropyltoluene)	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Dibromochloromethane	0.09	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Dibromomethane	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Dichlorodifluoromethane	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Dichloromethane (Methylene chloride)	0.65	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Ethylbenzene	0.08	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Ethylene dibromide (1,2-Dibromoethane)	0.1	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.14	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Isopropylbenzene (Cumene)	0.06	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	m,p-Xylene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.14	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Methyl tert-butyl ether (MTBE)	0.05	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Naphthalene	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	n-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	n-Propylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	o-Xylene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	sec-Butylbenzene	0.07	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Styrene	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	tert-Butylbenzene	0.08	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Tetrachloroethene (PCE)	0.08	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Tetrahydrofuran	0.59	ND	ug/kg		
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Toluene	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Total Xylene	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Trichloroethene (TCE)	0.07	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Vinyl acetate	0.08	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I1A-150806-5-6	5 - 6	08/06/2015	Vinyl chloride	0.07	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1,1,2-Tetrachloroethane	0.3	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1,1-Trichloroethane	0.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1,2,2-Tetrachloroethane	0.09	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1,2-Trichloroethane	0.28	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1-Dichloroethene	0.24	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,1-Dichloropropene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2,3-Trichloropropane	0.15	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2,4-Trichlorobenzene	0.17	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2,4-Trimethylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dibromo-3-chloropropane	0.37	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichlorobenzene	0.14	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene, cis-	0.13	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene, trans-	0.2	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,2-Dichloropropane	0.21	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene	0.11	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene, cis-	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene, trans-	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,4-Dichloro-2-butene, trans-	0.37	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	1,4-Dichlorobenzene	0.13	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	2,2-Dichloropropane	0.21	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	2-Butanone (MEK)	0.26	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	2-Chlorotoluene	0.15	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	2-Hexanone (Methyl butyl ketone)	0.62	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	4-Chlorotoluene	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Acetone	0.97	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Acrolein	7.6	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Acrylonitrile	0.48	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Benzene	0.11	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Bromobenzene	0.2	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Bromochloromethane	0.26	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Bromodichloromethane	0.16	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Bromoform (Tribromomethane)	0.22	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Bromomethane (Methyl bromide)	0.32	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Carbon disulfide	1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.2	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Chlorobenzene	0.33	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Chloroethane	0.3	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Chloroform	0.35	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Chloromethane	0.28	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Chloropicrin	3.6	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Dibromochloromethane	0.14	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Dibromomethane	0.15	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Dichlorodifluoromethane	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Dichloromethane (Methylene chloride)	1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.16	ND	ug/kg	7,100	ug/kg

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.21	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	m,p-Xylene	0.18	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.23	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Naphthalene	0.13	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	n-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	n-Propylbenzene	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	o-Xylene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	sec-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Styrene	0.38	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Tetrachloroethene (PCE)	0.13	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Tetrahydrofuran	0.93	ND	ug/kg		
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Toluene	0.18	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Total Xylene	0.16	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.36	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Vinyl acetate	0.12	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I2-150825-2-3	2 - 3	08/25/2015	Vinyl chloride	0.11	ND	ug/kg	480	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1,1,2-Tetrachloroethane	0.31	ND	ug/kg	550,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1,1-Trichloroethane	0.11	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1,2,2-Tetrachloroethane	0.1	ND	ug/kg	71,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1,2-Trichloroethane	0.3	ND	ug/kg	250,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1-Dichloroethane	0.08	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1-Dichloroethene	0.26	ND	ug/kg	8,500,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,1-Dichloropropene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2,3-Trichlorobenzene	0.14	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2,3-Trichloropropane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2,4-Trichlorobenzene	0.18	ND	ug/kg	490,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2,4-Trimethylbenzene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dibromo-3-chloropropane	0.39	ND	ug/kg	3,200	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichlorobenzene	0.15	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethane	0.11	ND	ug/kg	160,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene	0.14	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene, cis-	0.14	ND	ug/kg	340,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichloroethene, trans-	0.21	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,2-Dichloropropane	0.22	ND	ug/kg	390,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3,5-Trimethylbenzene (Mesitylene)	0.14	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3-Dichlorobenzene	0.13	ND	ug/kg	34,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropane	0.14	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene	0.12	ND	ug/kg	140,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene, cis-	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,3-Dichloropropene, trans-	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,4-Dichloro-2-butene, trans-	0.39	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	1,4-Dichlorobenzene	0.14	ND	ug/kg	2,600,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	2,2-Dichloropropane	0.22	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	2-Butanone (MEK)	0.27	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	2-Chlorotoluene	0.16	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	2-Hexanone (Methyl butyl ketone)	0.66	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	4-Chlorotoluene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Acetone	2.2	J	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Acrolein	7.9	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Acrylonitrile	0.51	ND	ug/kg	26,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Benzene	0.12	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Bromobenzene	0.2	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Bromochloromethane	0.27	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Bromodichloromethane	0.17	ND	ug/kg	230,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Bromoform (Tribromomethane)	0.23	ND	ug/kg	1,400,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Bromomethane (Methyl bromide)	0.33	ND	ug/kg	240,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Carbon disulfide	1.1	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Carbon tetrachloride (Tetrachloromethane)	0.21	ND	ug/kg	200,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Chlorobenzene	0.34	ND	ug/kg	3,400,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Chloroethane	0.31	ND	ug/kg	1,700,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Chloroform	0.36	ND	ug/kg	460,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Chloromethane	0.29	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Chloropicrin	3.8	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Cymene, p- (4-Isopropyltoluene)	0.12	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Dibromochloromethane	0.15	ND	ug/kg	170,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Dibromomethane	0.16	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Dichlorodifluoromethane	0.19	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Dichloromethane (Methylene chloride)	1.1	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Ethylbenzene	0.12	ND	ug/kg	1,300,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Ethylene dibromide (1,2-Dibromoethane)	0.17	ND	ug/kg	7,100	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.22	ND	ug/kg	130,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Isopropylbenzene (Cumene)	0.1	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	m,p-Xylene	0.19	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	0.24	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Methyl tert-butyl ether (MTBE)	0.08	ND	ug/kg	5,100,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Naphthalene	0.14	ND	ug/kg	2,500,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	n-Butylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	n-Propylbenzene	0.11	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	o-Xylene	0.17	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	sec-Butylbenzene	0.12	ND	ug/kg		

Location Type	Sample ID	Depth Interval (ft)	Sample Date	Chemical Name	Result Value	Lab Qualifiers	Units	MEDEP Limit	Units
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Styrene	0.4	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	tert-Butylbenzene	0.13	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Tetrachloroethene (PCE)	0.14	ND	ug/kg	1,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Tetrahydrofuran	0.98	ND	ug/kg		
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Toluene	0.26	J	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Total Xylene	0.17	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Trichloroethene (TCE)	0.12	ND	ug/kg	85,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Trichlorofluoromethane (Fluorotrichloromethane)	0.38	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Vinyl acetate	0.13	ND	ug/kg	10,000,000	ug/kg
Southerly Stream	TS-SS-I3-150825-2-3	2 - 3	08/25/2015	Vinyl chloride	0.12	ND	ug/kg	480	ug/kg

Notes:

- Data are from the 2014 Pre-Design Investigation and 2015 Pre-Design Investigation.
- Sample IDs beginning with BD are blind duplicates corresponding to the sample interval directly above
- MEDEP Limits: Maine Remedial Action Guidelines for unrestricted use

Qualifiers:

- Blank cell indicates that there is no qualifier for the corresponding data
- J: the compound was detected between the detection limit and the reporting limit
- ND: the compound was not detected above the reporting limit shown in the results column

APPENDIX A-4

Landfill 2 – Pre-Design Preliminary Waste Characterization

DRAFT

Lab Matrix	Analyte	Hazardous Trigger	TP-LF2-01-141215-01	TP-LF2-02-141217-01	Units
Leachate	Lead	5 mg/L	ND(0.5)	ND(0.5)	mg/L
Leachate	Silver	5 mg/L	ND(0.1)	ND(0.1)	mg/L
Leachate	Arsenic	5 mg/L	ND(1)	ND(1)	mg/L
Leachate	Barium	100 mg/L	0.89	1.6	mg/L
Leachate	Cadmium	1 mg/L	ND(0.1)	ND(0.1)	mg/L
Leachate	Chromium	5 mg/L	ND(0.2)	ND(0.2)	mg/L
Leachate	Selenium	1 mg/L	ND(0.5)	ND(0.5)	mg/L
Leachate	Mercury	0.2 mg/L	ND(0.001)	0.0014	mg/L
Leachate	Heptachlor epoxide	0.008 mg/L	ND(0.0001)	ND(0.0001)	ug/L
Leachate	Chlordane	0.03 mg/L	ND(0.001)	ND(0.001)	ug/L
Leachate	Hexachlorocyclohexane (BHC), gamma- (Lindane)	0.4 mg/L	ND(0.0001)	ND(0.0001)	ug/L
Leachate	Endrin	0.02 mg/L	ND(0.0002)	ND(0.0002)	ug/L
Leachate	Methoxychlor	10 mg/L	ND(0.001)	ND(0.001)	ug/L
Leachate	Heptachlor	0.008 mg/L	ND(0.0001)	ND(0.0001)	ug/L
Leachate	Toxaphene	0.5 mg/L	ND(0.001)	ND(0.001)	ug/L
Leachate	2,4,5-TP (Silvex)	1 mg/L	ND(0.005)	ND(0.005)	mg/L
Leachate	2,4-D (2,4-Dichlorophenoxyacetic acid)	10 mg/L	ND(0.025)	ND(0.025)	mg/L
Leachate	1,4-Dichlorobenzene	7.5 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	1,2-Dichloroethane	0.5 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	Chlorobenzene	100 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	Tetrachloroethene (PCE)	0.7 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	Carbon tetrachloride (Tetrachloromethane)	0.5 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	Chloroform	6 mg/L	ND(0.0075)	ND(0.0075)	ug/L
Leachate	Benzene	0.5 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	Vinyl chloride	0.2 mg/L	ND(0.01)	ND(0.01)	ug/L
Leachate	1,1-Dichloroethene	0.7 mg/L	ND(0.005)	ND(0.005)	ug/L
Leachate	2-Butanone (MEK)	200 mg/L	0.024 J	0.024 J	ug/L
Leachate	Trichloroethene (TCE)	0.5 mg/L	0.0053	0.011	ug/L
Leachate	Pyridine	5 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	Hexachlorobenzene	0.13 mg/L	ND(0.01)	ND(0.01)	ug/L
Leachate	2,4-Dinitrotoluene	0.13 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	Hexachloroethane	3 mg/L	ND(0.01)	ND(0.01)	ug/L

Lab Matrix	Analyte	Hazardous Trigger	TP-LF2-01-141215-01	TP-LF2-02-141217-01	Units
Leachate	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	0.5 mg/L	ND(0.01)	ND(0.01)	ug/L
Leachate	Pentachlorophenol	100 mg/L	ND(0.05)	ND(0.05)	ug/L
Leachate	2,4,6-Trichlorophenol	2 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	2-Methylphenol (o-Cresol)	200 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	2,4,5-Trichlorophenol	400 mg/L	ND(0.025)	ND(0.025)	ug/L
Leachate	Nitrobenzene	2 mg/L	ND(0.01)	ND(0.01)	ug/L
Leachate	3-Methylphenol & 4-Methylphenol (m&p-Cresol)	200 mg/L	ND(0.025)	ND(0.025)	ug/L
Soil	Flash point	140 deg F	ND(70)	ND(70)	deg F
Soil	Iron	1,000,000 mg/kg	20000	16000	mg/kg
Soil	Magnesium	NA	4200	3800	mg/kg
Soil	Nickel	5100 mg/kg	26	24	mg/kg
Soil	Sodium	NA	240	220	mg/kg
Soil	Strontium	NA	180	380	mg/kg
Soil	Barium	2000 mg/kg	130	2500	mg/kg
Soil	Cadmium	20 mg/kg	ND(0.99)	ND(0.91)	mg/kg
Soil	Zinc	10000 mg/kg	47	41	mg/kg
Soil	Calcium	NA	4700	8800	mg/kg
Soil	Mercury	4 mg/kg	33	68	mg/kg
Soil	Sulfide, reactive	10 mg/kg	ND(10)	ND(10)	mg/kg
Soil	Cyanide	10 mg/kg	ND(10)	ND(10)	mg/kg
Soil	pH	12.5 su	7.5	7.8	su

Notes:
- No analyzed samples surpassed the Hazardous Trigger limits

Qualifiers:
- J: the compound was detected between the detection limit and the reporting limit
- ND: the compound was not detected above the reporting limit shown in the results column

APPENDIX A-5

Landfill 2 and Southerly Stream – Pre-Design Brine Sludge Characterization Parameters

DRAFT

Sample ID	Sample Depth (ft)	Sulfate (mg/kg)	Sulfate Qualifier	Chloride (mg/kg)	Chloride Qualifier	Carbonate (%)	Carbonate Qualifier	Calcium (mg/kg)	Calcium Qualifier	Magnesium (mg/kg)	Magnesium Qualifier	Sodium (mg/kg)	Sodium Qualifier	Iron (mg/kg)	Iron Qualifier	Strontium (mg/kg)	Strontium Qualifier	Barium (mg/kg)	Barium Qualifier	Nickel (mg/kg)	Nickel Qualifier	Zinc (mg/kg)	Zinc Qualifier
SB-LF2-01-141218-3-4	3 - 4	53	J	12.0	ND	0.79		880		4,400		100		15,000		12.0		32		19		54	
SB-LF2-02-141218-3-4	3 - 4	60	J	12.0	ND	0.94		3,400		3,200		100		14,000		110.0		310		20		36	
SB-LF2-02-141218-7-8	7 - 8	120	J	13.0		11.00		34,000		5,000		860		13,000		890.0		480		22		60	
SB-LF2-02-141218-11-12	11 - 12	92	J	10.0	ND	0.85		1,300		4,200		96		17,000		14.0		32		27		37	
SB-LF2-03-141218-3-4	3 - 4	120		6.0	J	4.30		15,000		4,300		350		16,000		410.0		3,000		27		50	
BD-1412180906	3 - 4	120		10.0	ND	3.39		13,000		3,600		200		15,000		260.0		1,200		24		42	
SB-LF2-03-141218-5-6	5 - 6	200		5.7	J	1.64		8,500		4,200		330		18,000		220.0		1,000		26		48	
SB-LF2-03-141218-9-10	9 - 10	420	J	200.0		0.51		1,200		3,400		710		13,000		8.7		34		23		50	
SB-LF2-04-141218-3-4	3 - 4	24	J	11.0	ND	0.48		480		3,800		35	J	14,000		5.2		39		20		32	
SB-LF2-04-141218-7-8	7 - 8	54	J	9.7	J	5.25		29,000		3,600		480		13,000		820.0		69		19		45	
SB-LF2-04-141218-10-12	10 - 12	400	J	11.0	ND	0.64		930		4,000		150		16,000		10.0		33		26		36	
SB-LF2-04-141218-15-17	15 - 17	27	J	10.0	ND	1.97		6,100		4,400		120		16,000		32.0		32		26		38	
SB-LF2-04-141218-19-20	19 - 20	26	J	7.1	J	2.25		11,000		4,500		100		16,000		58.0		34		25		37	
SB-LF2-05-141218-3-5	3 - 5	68	J	12.0	ND	1.91		3,000		4,000		96	J	15,000		100.0		790		21		37	
SB-LF2-05-141218-7-8	7 - 8	25	J	12.0	ND	0.25	ND	680		3,200		59	J	13,000		20.0		12		18		27	
SB-LF2-05-141218-11-12	11 - 12	39	J	6.4	J	0.40		1,000		3,900		73	J	11,000		7.7		10		18		25	
SB-LF2-06-141217-3-4	3 - 4	42	J	6.2	J	0.25	ND	1,000		3,500		72	J	16,000		10.0		37		25		42	
SB-LF2-06-141217-7-8	7 - 8	160	J	19.0		0.25	ND	720		3,100		210		18,000		7.1		48		24		47	
SB-LF2-06-141217-11-12	11 - 12	380	J	12.0		0.25	ND	430		3,700		51	J	16,000		5.6		32		24		31	
SB-LF2-07-141217-3-4	3 - 4	58	J	11.0	ND	4.77		14,000		3,400		310		13,000		540.0		1,300		19		40	
SB-LF2-07-141217-7-8	7 - 8	110	J	11.0	ND	0.25	ND	770		2,800		31	J	9,800		5.9		20		14		18	
SB-LF2-07-141217-11-12	11 - 12	83	J	11.0	ND	0.25	ND	820		3,700		52	J	14,000		16.0		18		20		30	
SB-LF2-07-141217-15-16	15 - 16	64	J	10.0	ND	0.25	ND	920		2,700		46	J	9,500		24.0		170		14		22	
SB-LF2-08-141217-3-4	3 - 4	26	J	7.1	J	0.25	ND	910		3,100		29	J	18,000		24.0		44		23		35	
SB-LF2-08-141217-7-8	7 - 8	240		7.1	J	11.00		72,000		4,500		1,500		15,000		1700.0		600		23		58	
SB-LF2-09-141217-3-4	3 - 4	92	J	10.0	ND	2.48		4,200		6,200		130	J	27,000		160.0		980		34		53	
SB-LF2-09-141217-7-8	7 - 8	220	J	13.0	ND	0.60		3,400		3,600		120	J	14,000		58.0		74		23		45	
BD-1412171006	7 - 8	280	J	6.7	J	1.17		1,900		4,200		110	J	19,000		26.0		60		24		42	
SB-LF2-09-141217-11-12	11 - 12	39	J	10.0	ND	0.25	ND	1,200		5,100		53	J	15,000		8.8		16		25		31	
SB-LF2-10-141217-3-4	3 - 4	75	J	9.8	ND	3.67		14,000		4,600		290		18,000		480.0		1,100		25		54	
SB-LF2-10-141217-7-8	7 - 8	180	J	5.4	J	0.25	ND	1,200		6,800		220		27,000		32.0		59		36		52	
SB-LF2-10-141217-11-12	11 - 12	23	J	11.0	ND	0.25	ND	1,300		5,500		88	J	21,000		15.0		42		27		38	
SB-LF2-11-141217-3-4	3 - 4	30	J	11.0	ND	0.25	ND	780		4,200		41	J	20,000		6.8		25		24		32	
SB-LF2-11-141217-7-8	7 - 8	34	J	5.2	J	1.38		2,800		6,300		140	J	27,000		12.0		30		31		39	
BD-1412170816	7 - 8	22	J	9.6	ND	0.46		4,000		7,400		190		33,000		14.0		31		33		43	
SB-LF2-11-141217-11-12	11 - 12	21	J	9.4	ND	1.24		5,200		5,500		120	J	21,000		29.0		28		30		38	

Notes:
Qualifiers:
- Blank cell indicates that there is no qualifier for the corresponding data
- J: the compound was detected between the detection limit and the reporting limit
- ND: the compound was not detected above the reporting limit shown in the results column

APPENDIX A-6

Landfill 2 and Southerly Stream – Pre-Design Mercury Speciation

DRAFT

Sample ID	Total Hg (ng/g dry)	Hg Reporting Limit (ng/g dry)	Percent Solids	Methyl Hg (as Hg) (ng/g dry)	Hg F-1 (ng/g dry)	Hg F-2 (ng/g dry)	Hg F-3 (ng/g dry)	Hg F-4 (ng/g dry)	Hg F-5 (ng/g dry)	Hg F-6 (ng/g dry)
SB-LF2-15C-150722-5-6	67,200	3,310	86.2	47.50	1,150	617	1,940	26,500	34,500	2,420
SB-LF2-23B-150720-2-3	130,000	4,280	90.0	2.87	1,940	10,500	2,060	30,800	57,500	27,400
SB-LF2-24B-150720-2-3	28,400	2,190	85.6	21.30	404	349	ND(853)	16,700	10,800	113
Hg2Cl2*	1,210,000	72,600	N/A	N/A	102,000	61,200	607,000	390,000	52,100	1,570
HgO*	396,000	67,500	N/A	N/A	119,000	219,000	35,000	19,500	1,720	2,230
HgS*	1,110,000	19,700	N/A	N/A	36,100	145,000	535	153,000	774,000	988

Sample ID	Hg(0) (ng/g dry)	Total Hg (ng/g dry)	% Methyl Hg (as Hg)	% Water soluble Hg (F1)	% Weak acid extractable Hg (F2)	% Organo complexed Hg (F3)	% Strong complexed Hg (F4)	% Cinnabar, HgSe, HgAu (F5)	% Silicate Hg (F6)	% Elemental Hg
SB-LF1-18B-150720-6-7	788	28,202	0.04	13.83	39.36	5.64	26.95	10.74	0.65	2.79
SB-LF1-22D-150722-5-6	0.9	19,294	0.02	4.00	0.53	1.05	65.82	28.40	0.17	0.00
SB-LF1-30C-150720-4-5	6,040	571,126	0.00	14.55	26.61	20.31	31.17	5.76	0.54	1.06
SB-LF2-15C-150722-5-6	119	67,294	0.07	1.71	0.92	2.88	39.38	51.27	3.60	0.18
SB-LF2-23B-150720-2-3	96.5	130,299	0.00	1.49	8.06	1.58	23.64	44.13	21.03	0.07
SB-LF2-24B-150720-2-3	5.8	28,393	0.08	1.42	1.23	0.00	58.82	38.04	0.40	0.02
Hg2Cl2*	N/A	1,213,870	N/A	8.40	5.04	50.01	32.13	4.29	0.13	N/A
HgO*	N/A	396,450	N/A	30.02	55.24	8.83	4.92	0.43	0.56	N/A
HgS*	N/A	1,109,623	N/A	3.25	13.07	0.05	13.79	69.75	0.09	N/A

Notes:

*(ng/g wet)

Qualifiers:

- ND: the compound was not detected above the reporting limit shown in the results column

-N/A: Analysis not conducted for the samples.

APPENDIX B

Landfill 2 Area Pre-Design Investigation Logs

DRAFT

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BOREHOLE LOG
GB-LF2-01

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/16/2015 **End:** 06/16/2015
Borehole Coordinates:
N 392391.70 E 900688.84

Surface Elevation (ft.): 74.7
Total Depth (ft.): 50.8
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: J. Gillen/Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			74.7						
SS	S-1	24/17	0			3 4 6 5		FILL	(0'-2') Moist, loose, gray-brown, medium to fine SAND and SILT, trace gravel, trace organics (SM)
SS	S-2	24/10.5		0.0	0.000	5 4 2 2		FILL	(2'-4') Moist, loose, brown, medium to fine SAND and SILT, trace fine gravel (SM) Observed interval of dark brown fill with rock fragments at 2.33-2.5 ft bgs
SS	S-3	24/21	69.7 / 5			1 1 1 0		FILL	(4'-6') Wet, very loose, gray-brown, medium to fine SAND, some silt, trace fine gravel (SM)
SS	S-4	24/6				1 1 5 4		FILL	(6'-8') Wet, loose, gray-brown, medium to fine SAND, some silt, trace gravel (SM) Observed blackening of material at 6.1 ft bgs
SS	S-5	24/13	64.7			4 8 11 11		FILL	(8'-10') Wet, very stiff, gray-brown, SILT, and fine sand, mottled (ML)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(14 ft-16 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(50 ft)- O2-20.7, CO-0, H2S-0, LEL- 0

Reviewed by: Z. Tanguay **Date:** 10/27/2015

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BOREHOLE LOG
GB-LF2-01

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			64.7						
			10						
SS	S-6	24/12.5				10 8 9 7		ML	(10'-12') Wet, very stiff, light brown-gray, SILT, and fine sand, trace coarse sand, trace coarse to medium gravel
SS	S-7	24/0				3 7 14 10			(12'-14') No Recovery
SS	S-8	24/11.5	59.7 / 15	0.0	0.000	44 23 17 20		ML	(14'-16') Wet, hard, brown-gray, SILT, and fine sand, little coarse to medium gravel, trace coarse sand
SS	S-9	24/12	54.7 / 20			20 10 11 12		ML	(19'-21') Wet, very stiff, gray-light brown, SILT, little medium to fine gravel, some coarse to fine sand (TILL)
SS	S-10	24/10.5	49.7 / 25			19 14 14 18		ML	(24'-26') Wet, very stiff, gray, SILT, some coarse to fine sand, trace fine gravel (TILL)

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BOREHOLE LOG
GB-LF2-01

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-11	24/11	44.7 / 30			10 14 20 23		ML	(29'-31') Wet, hard, gray, SILT and coarse to medium GRAVEL, trace rock fragments (TILL)
SS	S-12	24/14	39.7 / 35			61 54 69 66		ML	(34'-36') Wet, hard, gray, SILT, some coarse to fine sand, some rock fragments, little coarse to fine gravel (TILL)
SS	S-13	15/9	34.7 / 40			36 58 50/3"		ML	(39'-41') Wet, hard, gray, SILT, little coarse to fine sand, trace gravel, trace rock fragments (TILL) Encountered refusal at 40.3 ft bgs

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BOREHOLE LOG
GB-LF2-01

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-14	6/0				50/6"		ML	(44'-46') No recovery Encountered refusal at 44.5 ft bgs
			29.7 / 45						
SS	S-15	22/22	24.7 / 50	0.0	0.007	54 45 55 50/4		ML	(49'-51') Wet, hard, SILT, some coarse to fine sand, little fine gravel, trace rock fragments (TILL)
			19.7 / 55						End of exploration - Refusal encountered at 50.8 ft bgs.

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BOREHOLE LOG
GB-LF2-02

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.8
Drilling Method/Rig: Drive Casing and Wash/CME 850
Total Depth (ft.): 50.2
Drillers: Joe Keenan, Pat McClenahan
Depth to Initial Water Level (ft. BGS): N/A
Drilling Date: Start: 06/18/2015 **End:** 06/18/2015
Abandonment Method: Cement-Bentonite Grout
Borehole Coordinates:
Field Screening Instrument: PID, Jerome, 4-gas meters
N 392355.14 E 900758.30
Logged By: J. Gillen/Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			77.8						
SS	S-1	24/18	0			6 6 7 9		FILL	(0'-1.25') Moist, dense, brown, medium to fine SAND, trace silt, little rock fragments in tip, trace medium to fine gravel (SP-SM)
SS	S-2	24/17.5		0.0	0.008	0 0 13 20		FILL	(2'-4') Moist, medium, brown-gray, medium to fine SAND, trace medium to fine gravel, trace silt, trace rock fragments (SP-SM)
SS	S-3	24/11	72.8 5			10 4 8 12		FILL	(4'-4.5') Moist, medium, brown-gray, coarse to fine SAND, little fine gravel, trace silt (SW)
								SC-SM	(4.5'-6') Moist, medium, brown, coarse to fine SAND, some silt, trace fine gravel
SS	S-4	24/19				10 15 10 9		SC-SM	(6'-8') Moist, medium, brown, coarse to fine SAND, some silt, little rock fragments, trace medium to fine gravel
SS	S-5	24/8.5				7 10 9 10		SC-SM	(8'-10') Wet, medium, brown, coarse to fine SAND and SILT
			67.8						

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(24 ft-26 ft)- O2-21.2, CO-6, H2S-0, LEL- -2
4gas(44 ft-46 ft)- O2-21.1, CO-1, H2S-0, LEL- 0

Reviewed by: Z. Tanguay **Date:** 10/27/2015

GEOSYNTEC BL PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 1/7/16

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-02

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			67.8						
SS	S-6	24/20.5	10			9 12 17 22		SC-SM	(10'-12') Wet, medium, brown, coarse to fine SAND and SILT, trace fine gravel, trace rock fragments
SS	S-7	22/22				26 30 48 50/4"		SC-SM	(12'-14') Wet, very dense, brown, coarse to fine SAND, little silt, trace gravel, trace rock fragments Encountered refusal at 14.9 ft bgs.
SS	S-8	22/21	62.8 15			8 23 45 50/4"		SC-SM	(14'-16') Wet, very dense, brown, coarse to fine SAND, little silt, trace fine gravel Encountered refusal at 15.9 ft bgs.
SS	S-9	24/22	57.8 20			32 49 45 50/6"		ML	(19'-21') Wet, hard, gray, SILT and coarse to fine SAND, trace fine gravel, trace rock fragments (TILL) Encountered refusal at 21 ft bgs.
SS	S-10	10/8		0.0	0.004	27 50/4"		ML	(24'-26') Wet, hard, gray, SILT and coarse to fine SAND, trace fine gravel, trace rock fragments (TILL) Encountered refusal at 24.8 ft bgs.
			52.8 25						

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BOREHOLE LOG
GB-LF2-02

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-11	9/8.5				17 50/3		ML	(29'-31') Wet, Hard, gray, SILT, some coarse to fine sand, little fine gravel (TILL) Encountered refusal at 29.8 ft bgs.
			47.8 30						
SS	S-12	18/18	42.8 35			26 53 50/6		ML	(34'-36') Wet, hard, gray, SILT and coarse to fine SAND, little rock fragments (TILL) Encountered refusal at 35.5 ft bgs.
SS	S-13	20/16	37.8 40			43 51 50/4"		ML	(39'-41') Wet, hard gray, SILT, some coarse to fine sand, trace rock fragments (TILL) Encountered refusal at 40.3 ft bgs.

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BOREHOLE LOG
GB-LF2-02

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-14	11/8.5	32.8 / 45	0.0	0.007	31 55/5"		ML	(44'-46') Wet, hard, gray, SILT, and medium to fine sand, trace rock framents (TILL) Encountered refusal at 44.9 ft bgs.
SS	S-15	16/14	27.8 / 50			24 48 50.4		SC-SM	(49'-51') Wet, hard, gray, coarse to fine SAND and silt, trace rock fragments (TILL)
			22.8 / 55						End of exploration - Refusal encountered are 50.3 ft bgs

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BOREHOLE LOG
GB-LF2-03

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/25/2015 **End:** 06/25/2015
Borehole Coordinates:
N 392480.28 E 900801.71

Surface Elevation (ft.): 70.6
Total Depth (ft.): 34
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			70.6						
SS	S-1	24/0	0			2 3 5 3			(0'-2') No Recovery
SS	S-2	24/3		0.0	0.006	2 3 3 4		FILL	(2'-4') Moist, loose, brown, medium to fine SAND, some silt, trace organics (SP)
SS	S-3	24/10.5	65.6 5			4 1 1 2		FILL	(4'-6') Wet, very soft, gray, SILT, little medium to fine sand, trace clay
SS	S-4	24/18				3 7 11 6		FILL	(6'-6.6') Moist, very stiff, gray, SILT and coarse to fine SAND, organics
								OL	(6.6'-6.85') Moist, medium, black, SILT, some clay, trace medium to fine sand, organics
								ML	(6.85'-8') Moist, very stiff, gray-brown, SILT, trace medium to fine sand, some clay
SS	S-5	24/15				3 12 12 10		GC-GM	(8'-10') Wet, very stiff, gray-brown, GRAVEL and silt, some clay, little coarse to fine sand
			60.6						

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-4, H2S-0, LEL-0

Reviewed by: Z. Tanguay **Date:** 10/27/2015

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BOREHOLE LOG
GB-LF2-03

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			60.6						
SS	S-6	24/11	10			6 5 6 7		SW-SM	(10'-12') Wet, medium, gray, medium to fine SAND, trace silt
SS	S-7	24/17				8 9 8 4		SW-SM	(12'-14') Wet, medium, gray, medium to fine SAND, trace silt
SS	S-8	24/9	55.6 / 15			3 4 5 5		SP	(14'-16') Wet, loose, gray, medium to fine SAND
SS	S-9	24/11				3 5 5 3		SW-SM	(16'-18') Wet, loose, gray, medium to fine SAND, trace silt
SS	S-10	24/0				4 5 5 6			(18'-20') No Recovery
			50.6 / 20						
SS	S-11	24/11				7 4 3 2		SW-SM	(20'-22') Wet, loose, brown, coarse to fine SAND, little silt
SS	S-12	12/9				2 50/6"		SW-SM	(22'-24') Wet, loose, brown, coarse to fine SAND, little silt Encountered refusal at 23 ft bgs.
			45.6 / 25					ROCK	Bedrock reached at 23 ft bgs Roller bit 11' into bedrock to a depth of 34 ft bgs

BOREHOLE LOG
GB-LF2-03

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			40.6 / 30						
			35.6 / 35						End of exploration at 34 ft bgs.
			30.6 / 40						

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BOREHOLE LOG
GB-LF2-04

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/17/2015 **End:** 06/17/2015
Borehole Coordinates:
N 392424.13 E 900832.54

Surface Elevation (ft.): 78.9
Total Depth (ft.): 51
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: J. Gillen/Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			78.9						
SS	S-1	24/20"	0			1, 6, 11, 10		FILL FILL	(0'-0.25') Moist, medium, medium to fine SAND, some silt, trace organics (SP) (0.25'-2') Moist, medium, brown-gray, coarse to fine SAND, little silt, trace medium to fine gravel (SW)
SS	S-2	24/5		0.0	0.007	5, 6, 8, 7		FILL	(2'-4') Moist, medium, brown, coarse to fine SAND, little rock framents (SW)
SS	S-3	24/9	73.9 5			4, 4, 4, 6		ML	(4'-6') Moist, medium stiff, brown-gray, SILT, some coarse to fine sand, trace rock fragments
SS	S-4	24/21				3, 5, 9, 6		ML	(6'-8') Moist, stiff, brown-gray, SILT and coarse to fine SAND, trace fine gravel
SS	S-5	24/7				2, 4, 20, 8		ML	(8'-10') Wet, very stiff, dark gray-brown, SILT and fine SAND, trace coarse to medium gravel, trace rock fragments, trace organics
			68.9						

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(12 ft-14 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(44 ft-46 ft)- O2-20.9, CO-0, H2S-0, LEL- -3

Reviewed by: Z. Tanguay **Date:** 10/27/2015

GEOSYNTEC BL PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 1/7/16

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-04

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			68.9						
SS	S-6	24/2	10			7 12 14 9		ML	(10'-12') Wet, very stiff, gray, SILT, some coarse to fine sand, trace gravel, trace rock fragments
SS	S-7	24/8		0.0	0.004	5 9 9 9		ML SP	(12'-13.4) Wet, very stiff, gray-brown, SILT, some coarse to fine sand, trace medium to fine gravel (13.4-13.9) Wet, medium, gray-brown, coarse to medium SAND
SS	S-8	24/15	63.9 15			7 9 12 11		ML ML	(13.9-14) Wet, very stiff, gray-brown, medium SILT and coarse to fine SAND (14'-16') Wet, very stiff, brown, SILT, little coarse to fine sand, trace fine gravel, trace rock fragments
SS	S-9	24/15				10 17 17 20		ML	(16'-18') Wet, very hard, brown-gray, SILT, some coarse to fine sand, trace fine gravel
SS	S-10	20/11				15 24 40 50/2"		ML	(18'-20') Wet, gray, hard, SILT, little coarse to fine sand, trace rock fragments (TILL) Encountered refusal at 19.6 ft bgs.
			58.9 20					ML	
SS	S-11	24/14	53.9 25			18 43 33 25		ML	(24'-26') Wet, hard, gray, SILT, little coarse to fine sand, trace rock fragments (TILL)

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-04

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
								ML	
SS	S-12	9/3				25 50/3"		ML	(29'-31') Wet, hard, gray, SILT, little coarse to fine sand (TILL) Encountered refusal at 29.75 ft bgs.
			48.9 30					ML	
SS	S-13	11/10.5				31 50/5"		ML	(34'-36') Wet, hard, gray, SILT and coarse to fine SAND (TILL) Encountered refusal at 34.9 ft bgs.
			43.9 35					ML	
SS	S-14	18/16	38.9 40			16 31 50/6"		ML	(39'-41') Wet, hard, gray, SILT and coarse to fine SAND, trace rock fragments (TILL) Encountered refusal at 40.5 ft bgs.
								ML	

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-04

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-15	20/18	33.9 / 45	0.0	0.003	22 44 50/6"		ML	(44'-46') Wet, hard, gray, SILT and coarse to fine SAND, trace rock fragments (TILL) Encountered refusal at 45.5 ft bgs
								ML	
SS	S-16	24/24	28.9 / 50			21 32 44 48		ML	(49'-51') Wet, hard, gray, SILT and coarse to fine SAND, trace fine gravel (TILL)
			23.9 / 55						End of exploration at 51 ft bgs.

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-05

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/19/2015 **End:** 06/22/2015
Borehole Coordinates:
N 392387.29 E 900871.47

Surface Elevation (ft.): 76.8
Total Depth (ft.): 49.3
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			76.8						
SS	S-1	24/15	0			10, 16, 12, 38		FILL FILL FILL	(0'-0.2') Moist, medium, brown, coarse to fine SAND, trace organics (SW) (0.2'-1') Moist, medium, brown, coarse to fine SAND, trace gravel, trace rock fragments (SW) (1'-2') Moist, medium, gray, coarse to fine SAND, trace rock fragments (SW)
SS	S-2	24/15.5				20, 6, 3, 6		FILL FILL	(2'-2.3') Moist, medium, gray, coarse to fine SAND, trace rock fragments (SW) (2.3'-4') Moist, loose, brown-gray, coarse to fine SAND, some silt (SM)
SS	S-3	24/24	71.8 5			7, 7, 10, 11		FILL	(4'-6') Moist, loose, brown-gray, coarse to fine SAND, some silt, trace fine gravel (SM)
SS	S-4	24/23				12, 13, 21, 17		FILL FILL	(6'-7') Moist, dense, brown-gray, coarse to fine SAND, some silt, trace fine gravel (SW-SM) (7'-8') Moist, dense, brown-gray, coarse to fine SAND and SILT (SM)
SS	S-5	24/19		0.0	0.004	8, 12, 18, 17		FILL	(8'-10') Wet, dense, brown-gray, coarse to fine SAND, and SILT (GC-GM)
			66.8						

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(8 ft-10 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(28 ft-30 ft)- O2-20.9, CO-0, H2S-0, LEL- 0
4gas(44 ft-46 ft)- O2-20.9, CO-0, H2S-0, LEL- 0

Reviewed by: Z. Tanguay **Date:** 10/27/2015

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-05

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			66.8						
SS	S-6	24/13	10			15, 17, 14, 18		FILL	(10'-12') Wet, dense, brown-gray, coarse to fine SAND, little silt, little fine gravel, some rock fragments (SM)
SS	S-7	24/19				16, 19, 22, 31		FILL	(12'-13') Wet, dense, brown-gray, fine GRAVEL, and coarse to medium sand, little silt (GM)
								SW-SM	(13'-14') Wet, dense, gray-brown, coarse to fine SAND, some gravel, some silt
SS	S-8	24/10	61.8 / 15			36, 39, 30, 26		GP-GM	(14'-16') Wet, very dense, brown-gray, fine GRAVEL, and coarse to fine SAND, trace silt
SS	S-9	24/13				10, 15, 27, 28		GP-GM	(16'-18') Wet, dense, brown-gray, fine GRAVEL, and coarse to medium sand, trace silt, trace rock fragments
SS	S-10	11/3				18, 54/5"		ML	(18'-20') Wet, very dense, brown-gray, SILT, and medium to fine sand, little rock fragments Encountered refusal at 18.9 ft bgs.
			56.8 / 20					ML	(20'-22') Roller bit through boulder. No sample was collected.
SS	S-11	24/14				15, 21, 22, 36		ML	(22'-24') Wet, dense, brown-gray, SILT, some fine sand, trace medium to fine gravel, trace coarse sand
SS	S-12	24/14	51.8 / 25			31, 28, 39, 42		ML	(24'-26') Wet, very dense, brown-gray, SILT, some fine sand, trace medium to fine gravel, trace coarse sand

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BOREHOLE LOG
GB-LF2-05

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-13	23/18				38 40 29 50/5"		ML	(26'-28') Wet, very dense, brown-gray, SILT, and some coarse to fine sand, little fine gravel Encountered refusal at 27.9 ft bgs.
SS	S-14	24/24		0.0	0.000	41 55 52 43		SM	(28'-28.8') Wet, very dense, brown-gray, coarse to fine SAND, little fine gravel
								ML	(28.8'-30') Wet, hard, gray, SILT, some coarse to fine sand, little fine gravel (TILL)
			46.8 30					ML	
SS	S-15	11/11				30 50/5"		ML	(34'-36') Wet, hard, gray, SILT and coarse to fine SAND, trace fine gravel (TILL) Encountered refusal at 34.9 ft bgs.
			41.8 35					ML	
SS	S-16	17/17				30 43 50/5"		ML	(39'-41') Wet, hard, gray, SILT, some coarse to fine sand, trace rock fragments (TILL) Encountered refusal at 40.4 ft bgs.
			36.8 40					ML	

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-05

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-17	18/17	31.8 / 45	0.0	0.000	31 33 50/6"		ML	(44'-46') Wet, hard, gray, SILT, little coarse to fine sand, trace rock fragments (TILL) Encountered refusal at 45.5 ft bgs.
								ML	
SS	S-18	4/0				50/4"		ML	(49'-51') No recovery
			26.8 / 50						End of exploration - Refusal at 49.3 ft bgs.
			21.8 / 55						

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-06

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/23/2015 **End:** 06/24/2015
Borehole Coordinates:
N 392476.18 E 900959.12

Surface Elevation (ft.): 72.9
Total Depth (ft.): 51
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			72.9						
SS	S-1	24/23	0			2 2 2 2		FILL	(0'-2') Moist, very loose, brown, coarse to fine SAND and SILT, trace organics (SM)
SS	S-2	24/18		0.1	0.000	2 4 5 5		FILL	(2'-4') Moist, stiff, brown, SILT and medium to fine sand (ML)
SS	S-3	24/13	67.9 / 5			5 3 1 1		FILL	(4'-6') Moist, very loose, brown, medium to fine SAND, trace silt (SP-SM)
SS	S-4	24/20				2 6 8 26		FILL	(6'-8') Moist, medium, brown, fine SAND, little silt (SM)
SS	S-5	24/10	62.9			14 17 20 14		GW	(8'-10') Wet, dense, gray-brown, fine GRAVEL, and coarse to medium sand, trace silt

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-0, H2S-0, LEL-0
4gas(39 ft-41 ft)- O2-20.9, CO-0, H2S-0, LEL- -2
4gas(44 ft-46 ft)- O2-20.9, CO-0, H2S-0, LEL- -2

Reviewed by: Z. Tanguay **Date:** 10/27/2015

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-06

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			62.9						
SS	S-6	24/10	10			10 17 29 26		SW-SM	(10'-12') Wet, dense, gray-brown, coarse to fine SAND, and Gravel, little silt
SS	S-7	21/0				17 21 16 50/3"			(12'-14') Rock in tip. No recovery Encountered refusal at 13.25 ft bgs.
SS	S-8	24/9	57.9 / 15			16 24 18 17		SW-SM	(14'-16') Wet, dense, brown-gray, coarse to fine SAND, and fine gravel, little silt
SS	S-9	24/9				17 30 32 10		SW-SM	(16'-18') Wet, very dense, brown-gray, coarse to fine SAND, and fine gravel, little silt
SS	S-10	24/13				2 2 5 6		SP	(18'-20') Wet, loose, gray, medium to fine SAND
			52.9 / 20						
SS	S-11	24/4				5 7 6 5		SP-SM	(20'-22') Wet, medium, gray, medium to fine SAND, trace silt
SS	S-12	24/13				3 4 4 5		SP-SM	(22'-24') Wet, loose, gray, medium to fine SAND, trace silt
SS	S-13	24/21	47.9 / 25			4 5 5 5		SM	(24'-26') Wet, medium, gray, medium to fine SAND, little silt

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BOREHOLE LOG
GB-LF2-06

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-14	24/17.5				1 1 1 4		SM	(26'-28') Wet, very loose, gray, medium to fine SAND, little silt
SS	S-15	24/15	42.9 / 30			4 6 6 7		SP	(28'-30') Wet, loose, brown-gray, coarse to medium SAND, trace silt
SS	S-16	24/3.5	37.9 / 35			11 11 21 14		ML	(34'-36') Wet, very stiff, gray, SILT, and coarse to fine sand (TILL)
SS	S-17	24/11	32.9 / 40	0.0	0.007	29 20 21 12		ML	(39'-41') Wet, hard, gray, SILT, some coarse to fine sand, trace fine gravel (TILL)

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-06

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-18	24/11	27.9 / 45	0.0	0.006	11 11 14 27		ML	(44'-46') Wet, very stiff, gray, SILT and coarse to fine SAND (TILL)
SS	S-19	24/7	22.9 / 50			10 8 10 13		ML	(49'-51') Wet, very stiff, gray, SILT, some coarse to fine sand, little rock fragments (TILL)
			17.9 / 55						End of exploration at 51 ft bgs.

CDM Smith | Geosyntec consultants

BOREHOLE LOG
GB-LF2-07

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Drive Casing and Wash/CME 850
Drillers: Joe Keenan, Pat McClenahan
Drilling Date: Start: 06/22/2015 **End:** 06/23/2015
Borehole Coordinates:
N 392350.90 E 900687.56

Surface Elevation (ft.): 76.9
Total Depth (ft.): 50.3
Depth to Initial Water Level (ft. BGS): N/A
Abandonment Method: Cement-Bentonite Grout
Field Screening Instrument: PID, Jerome, 4-gas meters
Logged By: Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			76.9						
SS	S-1	24/15	0			2 4 4 6		FILL	(0'-2') Moist, loose, brown, coarse to fine SAND, little coarse to fine gravel, trace organics (SW)
SS	S-2	24/20		0.0	0.007	11 12 24 13		FILL	(2'-3.2') Moist, dense, brown, coarse to fine SAND, little medium to fine gravel (SW)
								FILL	(3.2'-4') Moist, dense, black, granular, coarse to fine crushed anode material (SW)
SS	S-3	24/15	71.9 / 5			21 16 8 5		FILL	(4'-4.6') Moist, medium, brown, medium to fine SAND (SP)
								FILL	(4.6'-6') Moist, medium, gray, rock fragments (GP)
SS	S-4	24/22				1 1 0 1		FILL	(6'-6.5') Wet, very loose, dark brown, medium to fine SAND (SP)
								FILL	(6.5'-6.9') Moist, brown, very loose, medium to fine SAND (SP)
								FILL	(6.9'-8') Moist, very loose, brown-gray, coarse to fine SAND, trace fine gravel, trace rock fragments (SW)
SS	S-5	24/13				13 7 12 10		ML	(8'-10') Wet, very hard, brown-gray, SILT, some coarse to fine sand, medium to fine gravel
			66.9						

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4gas(2 ft-4 ft)- O2-20.9, CO-0, H2S-0, LEL- -2
4gas(29 ft-31 ft)- O2-20.9, CO-0, H2S-0, LEL-0
4gas(44 ft-46 ft)- O2-20.9, CO-0, H2S-0, LEL-0

Reviewed by: Z. Tanguay **Date:** 10/27/2015

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-07

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
			66.9						
SS	S-6	24/8	10			7 7 8 7		ML	(10'-12') Wet, stiff, brown, SILT, some fine sand, trace coarse to fine medium sand
SS	S-7	24/18				9 7 14 8		ML	(12'-14') Wet, very stiff, brown, SILT, some fine sand, trace fine gravel, trace rock fragments, trace coarse sand
SS	S-8	24/14	61.9 / 15			6 6 9 16		ML	(14'-16') Wet, very stiff, brown, SILT and medium to fine SAND, trace fine gravel
SS	S-9	24/24				22 23 20 17		ML / SW	(16'-17.5') Wet, very stiff, brown, SILT, some fine sand, trace coarse sand; (17.5'-18') Wet, dense, brown, coarse to fine SAND, little fine gravel, trace coarse sand
SS	S-10	24/12	56.9 / 20			22 28 35 16		ML	(18'-20') Wet, very stiff, gray, SILT, some coarse to fine sand, trace rock fragments (TILL)
SS	S-11	24/11	51.9 / 25			8 28 33 29		ML	(24'-26') Wet, hard, gray, SILT and coarse to fine SAND, some rock fragments (TILL)

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-07

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-12	21/11	46.9 / 30	0.0	0.000	5, 24, 34, 50/3		ML	(29'-31') Wet, hard, gray, SILT, some coarse to fine sand (TILL) Encountered refusal at 30.8 ft bgs.
SS	S-13	16/15	41.9 / 35			29, 38, 50/4"		ML	(34'-36') Wet, hard, gray, SILT, some coarse to fine SAND (TILL) Encountered refusal at 35.3 ft bgs.
SS	S-14	22/15	36.9 / 40			30, 38, 50, 50/4"		ML	(39'-41') Wet, hard, gray, SILT, some coarse to fine sand (TILL) Encountered refusal at 40.9 ft bgs.

CDM Smith Geosyntec consultants

BOREHOLE LOG
GB-LF2-07

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Blows per 6 Inches	Graphic Log	Stratum Designation	Material Description
SS	S-15	22/15	31.9 / 45	0.0	0.000	14 36 48 50/4"		ML	(44'-46') Wet, hard, gray, SILT, some coarse to fine sand, trace rock fragments (TILL) Encountered refusal at 45.9 ft bgs.
SS	S-16	16/16	26.9 / 50			29 48 50/4"		ML	(49'-51') Wet, hard, gray, SILT, little coarse to fine sand (TILL) Encountered refusal at 50.3 ft bgs.
			21.9 / 55						Bottom of exploration at 50.3 ft bgs.

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-12

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 72.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 6/23/2015 **End:** 6/23/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,403.33 E 900,685.33

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			72.4					
GP	S-1	60/42	0	0.0	0.004		FILL	(0'-2.5') Moist, brown SILT, little fine sand, organics (ML)
							FILL	(2'-2.7') Moist, black, SLAG
							FILL	(2.7'-4') Wet, brown, medium-fine SAND, trace silt (SW)
							OL	(4'-5') Wet, black, SILT, some fine sand
			67.4					
GP	S-2	60/38	5	0.0	0.003		OL	(5'-6.2') Wet, black, SILT, some fine sand
							SM	(6.2'-6.8') Wet, dark gray, medium-fine SAND
							ML	(6.8'-10') Moist, gray, SILT, some fine sand, trace fine gravel
			62.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and Chloropicrin collected at 2-3 ft and 3-4 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-12

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			62.4					
GP	S-3	60/30	10	0.0	0.000		ML	(10'-15") Moist, gray, SILT, some fine sand, trace fine gravel
			57.4					
			15					End of exploration at 15 ft bgs
			52.4					
			20					
			47.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-13

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.0
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 6/24/2015 **End:** 6/24/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,373.54 E 900,695.46

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.0					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-3.2') Moist, brown, SILT, some fine sand, organics (ML)
							FILL	(3.2'-4.2') Dry, brown, medium to fine SAND, some coarse to fine gravel, trace silt (SW)
							FILL	(4.2'-5') Moist, brown, medium to fine SAND (SP)
			71.0					
GP	S-2	60/42	5	0.0	0.000		FILL	(5'-6.3') Moist, brown, medium to fine SAND (SP)
							FILL	(6.3'-9') Wet, black, fine SAND with silt (SM)
							ML	(9'-10') Moist, gray, SILT, little fine sand, little medium to fine gravel, trace clay (TILL)
			66.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin to be collected at 10-11 ft anf 15-16 ft
Driller noted increased pressure at 12 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-13

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.0					
GP	S-3	60/31	10	0.0	0.000		ML	(10'-15') Moist, gray, SILT, little fine sand, little medium to fine gravel, trace clay (TILL)
			61.0					
GP	S-4	60/36	15	0.0	0.000		ML	(15'-17') Moist, gray, SILT, little fine sand, little medium to fine gravel, trace clay (TILL)
							GW-GM	(17'-20') Dry, gray, coarse to fine GRAVEL, little fine sand, trace silt (TILL)
			56.0					
			20					End of exploration at 20 ft bgs.
			51.0					
			25					

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BOREHOLE LOG

SB-LF2-14

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 69.0
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 6/19/2015 **End:** 6/19/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,432.45 E 900,711.68

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			69.0					
GP	S-1	60/37	0	0.0	0.000		FILL	(0-2.5) Moist, brown, coarse to fine SAND, some silt, trace coarse to medium gravel, trace organics (SM)
							FILL	(2.5-4.25) Moist, dark brown, coarse to fine SAND, little silt, little medium to fine gravel (SM) Observed organics and wood chips at 3 ft bgs
							FILL	(4.25-5) Moist, gray-brown, SILT and medium to fine SAND, trace fine gravel (ML)
			64.0					
GP	S-2	60/29	5	0.0	0.000		FILL	(5-6.5) Moist, gray-brown, SILT and medium to fine SAND, trace fine gravel (ML) Observed rock fragments at 6 ft bgs
							FILL	(6.5-7.5) Moist, brown, SILT and coarse to fine SAND, some rock fragments (ML)
							SP	(7.5-10) Wet, gray-brown, medium to fine SAND, little silt Observed dark brown silt and organics at 7.5-7.6 ft bgs
			59.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
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BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Readings at hole: Jerome: 0.000 mg/m3, PID: 0.0 ppm, CO=0, O2=20%, H2S=0, %LEL=0, Native material at 7.5 ft, Sampling ended at 13 ft

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-14

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			59.0					
GP	S-3	60/36	10	0.0	0.000		SP	(10-12.5) Wet, gray, coarse to medium SAND, trace silt
							ML	(12.5-15) Wet, gray, SILT, some fine sand, trace fine gravel
			54.0					
			15					End of exploration at 15 ft bgs.
			49.0					
			20					
			44.0					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

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BOREHOLE LOG

SB-LF2-15

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.2
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 6/23/2015 **End:** 6/23/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,374.82 E 900,716.13

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 76.2	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				FILL	(0'-0.3') Dry, brown, SILT, little fine sand, organics (ML)
							FILL	(0.3'-2.2') Dry, brown, SILT, little fine sand, trace fine gravel, trace clay (ML)
GP	S-1	60/46		0.0	0.019		FILL	(2.2'-4.4') Moist, brown, medium to fine SAND, some coarse to fine gravel, trace silt (SP)
			71.2				FILL	(4.4'-5') Moist, dark brown, medium to fine SAND, little silt, trace clay (SM)
			5				FILL	(5'-6') Wet, brown, medium to fine SAND, trace silt (SM)
							FILL	(6'-8') Wet, black, medium to fine granular material with metallic sheen, very fine black silt
GP	S-2	60/43		0.0	0.006		FILL	(8'-10') Wet, gray, SILT, some coarse to fine gravel Observed wet, gray, coarse to medium sand lense (ML) at 9.0 ft bgs
			66.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-15

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.2					
GP	S-3	60/44	10	0.0	0.000		FILL	(10'-13') Wet, gray-black, medium to fine granular material and very fine silt
							ML	(13'-15') Moist, light brown, SILT, little medium to fine gravel, trace fine sand (TILL)
			61.2					
GP	S-4	60/48	15	0.0	0.000		ML	(15'-17') Moist, light brown SILT, little medium to fine gravel, trace fine sand (TILL)
							GM	(17'-20') Moist, gray, coarse to medium GRAVEL, little silt, trace fine sand (TILL)
			56.2					
			20					End of exploration at 20 ft bgs
			51.2					
			25					

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BOREHOLE LOG

SB-LF2-15C

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Borehole Coordinates:
N 392,374.82 E 900,716.13

Surface Elevation (ft.): 76.19
Total Depth (ft.): 6
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 76.2	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0					(0-5') See SB-LF5-15 boring log for lithologic description.
			71.2					
GP	S-1	12/11	5	0.0	0.000		FILL	(5-6') Moist, dark brown-dark gray-black, coarse-fine SAND, little silt. (SW)
								End of Exploration at 6' BGS.
			66.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 5-6' BGS for Hg speciation. The Jerome MVA readings indicated represent the highest recorded values in that range.
Offset of SB-LF1-15, 1' north of original boring location.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-16

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.3
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 25
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 6/17/2015 **End:** 6/17/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,413.50 E 900,732.71

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.3					
GP	S-1	60/42	0	0.0	0.019		FILL	(0'-1.5') Dry, dark gray-brown, SILT, little gravel (ML)
							FILL	(1.5'-5') Moist, dark brown, medium to fine SAND, trace gravel, trace silt (SM)
			70.3					
GP	S-2	60/36	5	0.0	0.000		FILL	(5'-6') Moist, dark brown, medium to fine SAND, trace gravel, trace silt (SM)
							FILL	(6'-8') Moist, dark gray, medium to fine SAND, some silt, trace gravel (SM)
							FILL	(8'-10') Moist, light-dark gray, SILT, little gravel, little fine sand (ML)
			65.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-16

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.3					
GP	S-3	60/36	10 / 60.3	0.0	0.000		FILL	(10'-15') Moist, light gray-olive gray, SILT, little gravel, trace fine sand, trace clay. Observed coarse to fine sand lense (ML) at 12.5-12.6 ft bgs
GP	S-4	60/24	15 / 55.3	0.0	0.000		ML	(15'-19') Moist, light gray-olive gray, SILT, some gravel, little clay, trace fine sand (TILL)
							ML	(19'-20') Cobble, no sample collected
GP	S-5	60/24	20 / 50.3	0.0	0.000		ML	(20'-25') Moist, light gray-olive gray, SILT, some gravel, little clay, trace sand (TILL)
			25					End of exploration at 25 ft bgs.

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

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BOREHOLE LOG

SB-LF2-17

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 25
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/25/2015 **End:** 06/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,399.30 E 900,730.01

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.4					
GP	S-1	60/42	0	0.0	0.008		FILL	(0'-2') Moist, brown, SILT, little fine sand, trace medium to fine gravel, trace organics (ML)
							FILL	(2'-2.9') Moist, brown, medium to fine SAND, trace silt (SP)
							FILL	(2.9'-3.2') Moist, light brown, SILT, little clay, trace fine sand (ML)
							FILL	(3.2'-5') Moist, brown, medium to fine SAND, trace silt (SP)
			71.4					
GP	S-2	60/52	5	0.0	0.000		FILL	(5'-6.2') Wet, brown, medium to fine SAND, trace silt (SM)
							FILL	(6.2'-9.2') Wet, black, fine SAND and silt-like material, trace silt (SP)
							FILL	(9.2'-10') Moist, gray-light brown, SILT, some medium to fine gravel, trace fine sand (ML)
			66.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin collected at 20-22 ft bgs
Driller noticed increased pressure ~18 ft bgs

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-17

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.4					
GP	S-3	60/60	10	0.0	0.000		FILL	(10'-11') Wet, black, SILT (ML)
							FILL	(11'-12.6') Wet, black fine SAND and SILT, some graphite-like material (SM-ML)
							FILL	(12.6'-13.6') Moist, gray, fine SAND and CLAY, little fine gravel (SC)
							FILL	(13.6'-15') Moist, light brown, SILT, some fine sand, some medium to fine gravel (ML)
			61.4					
GP	S-4	60/48	15	0.0	0.000		FILL	(15'-18.5') Moist, light brown, SILT, some fine sand, little clay, trace fine gravel (ML)
							ML	(18.5'-20') Wet, gray, SILT, some medium to fine gravel, trace clay (TILL)
			56.4					
GP	S-5	60/22	20	0.0	0.000		ML	(20'-25') Wet, gray, SILT, some medium to fine gravel, trace clay (TILL)
			51.4					
			25					End of exploration at 25 ft bgs

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

SB-LF2-17B

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Borehole Coordinates:
N 392,400.56 E 900,729.39

Surface Elevation (ft.): 76.2
Total Depth (ft.): 17
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.2 0					(0-10') See SB-LF2-17 lithologic description for more details.
			71.2 5					
			66.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 16-17' BGS for VOCs. Offset of SB-LF2-17, 1' from original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-17B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.2 10 61.2 15					(10-16') See SB-LF2-17 lithologic description for more details.
GP	S-1	12/12		0.0	0.000		ML	(16-17') Moist, gray, SILT, some clay, little medium-fine angular to rounded gravel, trace coarse-fine sand. (ML)
			56.2 20 51.2 25					End of Exploration at 17' BGS.

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BOREHOLE LOG

SB-LF2-18

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.2
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/22/2015 **End:** 06/22/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J.Gillen, J.Kocis

N 392,363.74 E 900,733.70

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.2					
GP	S-1	60/46	0	0.0	0.000		FILL	(0'-1.75') Moist, brown, coarse to fine SAND, little fine gravel, trace silt (SW)
							FILL	(1.75'-2') Dry, light gray-brown, medium to fine GRAVEL, some medium to fine sand (GP)
							FILL	(2'-3.5') Moist, brown, coarse to fine SAND, little silt, little medium gravel (SW)
							FILL	(3.5'-4') Moist, black, SLAG, some white medium sand
							FILL	(4'-5') Moist, gray-brown, SILT, some coarse to fine sand, trace medium to fine gravel, trace organics (ML)
			72.2					
GP	S-2	60/38	5	0.0	0.000		FILL	(5'-6.5') Moist, gray-brown, SILT, some coarse to fine sand, trace medium to fine gravel, trace organics (ML) Observed seam of organics and wood at 6 ft bgs
							ML	(6.5'-8') Moist, gray-brown, SILT, some medium to fine sand, trace medium to fine gravel
							ML	(8'-10') Moist, brown-gray, SILT, some medium to fine sand, trace medium to fine gravel (TILL)
			67.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller noted hole "tight" at end of 5-10' interval and entire 10'-15' interal.
Native till encountered at 8 ft.
Two samples taken over 10-16' interval.

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-18

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.2					
GP	S-3	60/26	10	0.0	0.000		ML	(10'-15') Moist, brown-gray, SILT, some medium to fine sand, trace medium to fine gravel (TILL) Observed fractured rock at 13.25 ft bgs
			62.2					
			15					End of exploration at 15 ft bgs.
			57.2					
			20					
			52.2					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-19

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 68.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/23/2015 **End:** 06/23/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,451.59 E 900,742.04

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.9					
GP	S-1	60/36	0	0.0	0.007		FILL	(0'-2') Moist, brown, SILT, little fine sand, trace organics (ML)
							FILL	(2'-3') Moist, brown, medium to fine SAND, some silt, trace fine gravel (SM)
							FILL	(3'-4') Moist, black, SILT, trace organics (ML)
							SP-SM	(4'-5') Wet, gray, fine SAND, trace silt
			63.9 5					
GP	S-2	60/36		0.0	0.004		SP-SM	(5'-7') Wet, gray, fine SAND, trace silt
							GW	(7'-8') Moist, gray, coarse to fine GRAVEL, some coarse to fine sand
							ML	(8'-10') Wet, gray, SILT, trace fine sand
			58.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin collected at 2-3 and 3-4 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-19

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			58.9					
GP	S-3	60/48	10	0.0	0.003		SW	(10'-15') Wet, brown, coarse to fine SAND
			53.9					
			15					End of exploration at 15 ft bgs.
			48.9					
			20					
			43.9					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-20

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.0
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/26/2015 **End:** 06/26/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,378.50 E 900,752.26

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.0					
GP	S-1	60/43	0	0.0	0.006		FILL	(0'-0.3') Dry, coarse to medium GRAVEL, little medium to fine sand, organics (GW)
							FILL	(0.3'-4.2') Moist, gray-brown, medium to fine SAND, little medium to fine gravel (SW)
							FILL	(4.2'-5') Moist, gray, SILT, some medium to fine grvel, trace fine sand (ML)
			72.0					
GP	S-2	60/42	5	0.0	0.000		FILL	(5'-5.5') Moist, brown, medium to fine SAND (SP)
							FILL	(5.5'-8') Moist-wet, light gray, SILT, some medium to fine gravel, trace fine sand, trace clay (ML) Observed wet, dark brown, wood debris at 6.8-7.0 ft bgs
							ML	(8.6'-10') Moist, light brown, SILT, some medium to fine gravel, trace fine sand (TILL)
			67.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-20

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.0					
GP	S-3	60/36	10	0.0	0.000		ML	(10'-15') Moist, light brown, SILT, some medium to fine gravel, trace fine sand (TILL)
			62.0					
			15					End of exploration at 15 ft bgs.
			57.0					
			20					
			52.0					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-21

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 69.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/18/2015 **End:** 06/18/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,480.08 E 900,789.36

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			69.4					
GP	S-1	60/48	0	0.0	0.000		FILL	(0'-2.8') Dry-moist, brown-light-gray SILT, some coarse to fine gravel, little fine sand (ML)
							FILL	(2.8'-3.8') Moist, yellowish brown-gray SILT, some coarse to fine gravel, little clay (ML) Observed dark gray material ~3 ft bgs
							OL	(3.8'-4.8') Moist, very dark brown, SILT, some organics
			64.4				SM	(4.8'-5') Moist, gray, fine SAND and SILT, trace fine gravel
			5				ML	(5'-8') Moist-wet, gray, SILT, some fine sand, little coarse to medium gravel (TILL)
GP	S-2	60/30		0.0	0.000			
							SP	(8'-10') Wet, yellow-brown, medium to fine SAND, little coarse to fine gravel (TILL)
			59.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Borehole Readings 5-10 ft PID: 0, Jerome: 0.000 mg/m3, 4 Gas: 0,0,20.9,0

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-21

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			59.4					
GP	S-3	60/48	10	0.0	0.000		SW	(10'-15') Wet, dark brown, coarse to fine SAND, little coarse to fine gravel (TILL)
			54.4					
			15					End of exploration at 15 ft bgs
			49.4					
			20					
			44.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-22

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.6
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 25
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/25/2015 **End:** 06/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,439.95 E 900,786.33

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.6					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-2.4') Moist, brown, SILT, little fine sand, little medium to fine gravel (ML)
							FILL	(2.4'-4') Moist, brown, medium to fine SAND (SP)
							FILL	(4'-5') Wet, black, graphite-like material
			71.6					
GP	S-2	60/30	5	0.0	0.000		FILL	(5'-7') Wet, black, graphite-like material, some silt
							FILL	(7'-7.5') Moist, black, medium to fine SAND and graphite-like material (SP)
							FILL	(7.5'-9.7') Moist, gray, SILT, some coarse to fine gravel, trace fine sand (ML)
			66.6				FILL	(9.7'-10') wet, black, SILT, with roots (ML)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin to be collected at 20-21 ft and 21-22 ft offsaet ~1 ft West after 10 ftbgs

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-22

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.6					
GP	S-3	60/41	10	0.0	0.000		FILL	(10'-10.5') wet, black, SILT, with roots (ML)
							FILL	(10.5'-12') Moist, gray, SILT, some coarse to fine gravel, trace clay (ML)
							CL	(12'-14.3') Moist, gray, CLAY, little medium to fine gravel, trace silt (TILL) Observed moist, medium to fine SAND (SP) at 13.3-13.4 ft bgs
			61.6				ML	(14.3'-15') Wet, gray-light brown, SILT, little medium to fine sand, little medium to fine gravel, trace clay (TILL)
GP	S-4	60/30	15	0.0	0.000		GW-GM	(15'-17.5') Wet, gray coarse to medium GRAVEL, some medium to fine sand, trace silt (TILL)
							SM	(17.5'-18.5') Wet, brown, medium to fine SAND, trace silt (TILL)
							CL	(18.5'-20') Moist, gray, CLAY, little medium to fine gravel, trace silt (TILL)
			56.6					
GP	S-5	60/28	20	0.0	0.000		CL	(20'-25') Moist, gray, CLAY, little medium to fine gravel, trace silt (TILL)
			51.6					
			25					End of exploration at 25 ft bgs.

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-23

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 19
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/24/2015 **End:** 06/24/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,384.94 E 900,783.28

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.4					
GP	S-1	60/44	0	0.0	0.000		FILL	(0'-1') Moist, brown, medium to fine SAND, some silt little medium to fine gravel (SW-SM)
							FILL	(1'-4.6') Moist, brown-gray, medium to fine SAND, trace silt (SW)
			72.4				FILL	(4.6'-5') Moist, black, graphite-like material
GP	S-2	60/30	5	0.0	0.000		FILL	(5'-7.2') Wet, brown, SILT, some fine sand, little wood debris (ML)
							FILL	(7.2'-10') Moist, gray, coarse to fine GRAVEL, some silt, little fine sand (GM)
			67.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin collected at 1-2 ft and 2-3 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-23

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.4					
			10				FILL	(10'-12') Moist, gray-brown, SILT and medium to fine SAND, little medium to fine gravel, trace clay (ML/GM)
GP	S-3	60/42		0.0	0.000		ML	(12'-15') Moist, brown, SILT, some fine sand, little medium to fine gravel (TILL) Observed medium sand lense (SP) at 13.6-13.7 ft bgs
			62.4					
			15				ML	(15'-17') Moist, brown, SILT, some fine sand, little medium to fine gravel (TILL)
GP	S-4	60/44		0.0	0.000		GM	(17'-19') Moist, gray, coarse to fine GRAVEL, some fine sand, trace silt (TILL)
			57.4					
			20					End of exploration at 20 ft bgs.
			52.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-23B

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Borehole Coordinates:
N 392,384.94 E 900,783.28

Surface Elevation (ft.): 77.36
Total Depth (ft.): 3
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.4 0					(0-2') See SB-LF2-23 boring log for lithologic descriptions.
GP	S-1	12/12		0.0	0.000		FILL	(2-3') Dry, brown, coarse-fine SAND, trace medium-fine rounded gravel, trace silt. (SW)
			72.4 5 67.4					End of Exploration/advancement at 3' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 2-3' BGS for Hg speciation. Offset of SB-LF2-23, 1' west of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-24

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 73.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 18
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/16/2015 **End:** 06/16/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,470.45 E 900,808.17

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			73.4					
			0				FILL	(0'-0.4') Top Soil
							FILL	(0.4'-2') Dry, red brown-brown, fine SAND, some silt (SM)
GP	S-1	60/44		0.0	0.000		FILL	(2'-4.6') Dry, light brown, SAND with gravel and silt, trace clay (SM)
			68.4				FILL	(4.6'-5') Moist, gray, medium to fine SAND, some clay, trace gravel (SC)
			5				FILL	(5'-8.3') Moist, gray, medium to fine SAND, some clay, some gravel (SC)
GP	S-2	60/42		0.0	0.000		FILL	(8.3'-8.5') Moist, dark gray, SILT, wood debris (ML)
							FILL	(8.5'-10') Moist, red brown, SILT, wood debris (ML)
			63.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-24

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			63.4					
GP	S-3	60/42	10	0.0	0.000		FILL	(10'-11') Moist, dark brown, SILT, trace organics (OL)
							FILL	(11'-13') Moist, dark brown, SILT, trace organics (OL)
							FILL	(13'-13.5') Moist, gray, CLAY (CL)
							FILL	(13.5'-14') Moist, gray, CLAY, some silt, some gravel, little fine sand (CL)
							GW	(14'-15') Moist, light gray-brown, GRAVEL, some coarse to fine sand, some silt (TILL)
			58.4					
GP	S-4	60/30	15	0.0	0.000		GW	(15'-16') Moist, light gray-brown, GRAVEL, some coarse to fine sand, some silt (TILL)
							SW	(16'-18') Moist, light gray, medium to fine SAND (TILL)
			53.4					
			20					End of exploration at 20 ft bgs.
			48.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-24B

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Borehole Coordinates:
N 392,470.45 E 900,808.17

Surface Elevation (ft.): 73.37
Total Depth (ft.): 3
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			73.4 0					(0-2') See SB-LF2-24 boring logs for lithologic descriptions.
GP	S-1	12/12		0.0	0.000		FILL	(2-3') Moist, brown, SILT, some fine sand, little coarse-fine sub-angular and angular gravel, trace clay. (ML)
			68.4 5 63.4					End of Exploration at 3' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 2-3' BGS for Hg speciation. Offset of SB-LF2-24. 1' east of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-25

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/22/2015 **End:** 06/22/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J.Gillen, J.Kocis

N 392,419.77 E 900,799.72

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.4					
GP	S-1	60/41	0	0.0	0.000		FILL	(0'-1.25') Moist, brown, medium to fine SAND and SILT trace fine gravel, organics (SM)
							FILL	(1.25'-2.5') Moist, brown, SILT and coarse to fine SAND, little medium to fine gravel (ML)
							FILL	(2.5'-5') Moist, brown, coarse to fine SAND, trace silt (SW-SM) Observed a tan clay seam at 3.75 ft bgs and black sand material at 5 ft bgs
			73.4					
GP	S-2	60/43	5	0.0	0.000		FILL	(5'-6.75') Wet, black, medium to fine graphite-like material
							FILL	(6.75'-8.75') Wet, gray-brown, medium to fine SAND, trace silt, trace medium gravel (SP-SM)
							FILL	(8.75'-10') Wet, brown, SILT, some some coarse to fine sand, trace fine gravel, trace organics (ML) Observed an organic seam at 9.75 ft bgs
			68.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Jerome reading for 5-6.75 ft bgs = 0.017 mg/m3
Driller notes hole"tightened" at ~12 to 14 ft
Jerome reading at 11.5 ft bgs= 0.003 mg/m3
Native material encountered at 12.5 ft
Sampling ended at 17 ft

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-25

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.4					
GP	S-3	60/47	10	0.0	0.000		FILL	(10'-12.5') Wet, gray-blck, coarse to fine SAND, little gravel little silt (SP-SM)
							ML	(12.5'-15') Wet, gray-brown, SILT, some coarse to fine sand, trace fractured rock (TILL)
			63.4					
GP	S-4	60/46	15	0.0	0.000		ML	(15'-18') Moist, brown-gray, SILT, some coarse to fine sand, trace medium to fine gravel, trace fractured rock (TILL)
							ML	(18'-20') Moist, brown-gray, SILT, some coarse to fine sand, some medium to fine gravel, little fractured rock (TILL)
			58.4					
			20					End of exploration at 20 ft bgs.
			53.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

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BOREHOLE LOG

SB-LF2-26

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 25
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/18/2015 **End:** 06/18/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,399.30 E 900,806.92

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.9					
GP	S-1	60/48	0	0.0	0.000		FILL	(0'-2') Dry, light brown, SILT, little gravel, trace fine sand, trace clay (ML)
							FILL	(2'-3.3') Dry, dark yellowish brown, medium to fine SAND, trace fine gravel (SP)
							FILL	(3.3'-3.8') Black, medium to fine coarse granular material with metallic sheen
							FILL	(3.8'-5') Moist, yellowish brown-grayish brown fine SAND, trace coarse to fine gravel (SP/SC) Observed a clay layer at 4.0 ft bgs
			72.9					
GP	S-2	60/36	5	0.0	0.000		FILL	(5'-6') Moist, grayish brown, coarse to fine SAND and CLAY, some coarse to fine gravel, trace organics (SW/SC)
							FILL	(6'-7.5') Moist, dark brown, wood debris, little gravel
							FILL	(7.5'-10') Moist-wet, light gray, fine SAND, some coarse to fine gravel, little silt, little clay (SW)
			67.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Borehole reading 08:53 PID:0.0, Jerome:0.0, 4-gas: 0.0,0.0,20.9,0.0
~10 ft bgs increase pressure on Geoprobe
~19-20 ft bgs, very high pressure increase on Geoprobe

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-26

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.9					
GP	S-3	60/40	10	0.0	0.000		FILL	(10'-11.4') Wet, light gray, fine SAND, some coarse to fine gravel, some silt, little clay (SW)
							FILL	(11.4-15) Moist, yellowish brown, SILT, some clay, some coarse to fine gravel (ML)
			62.9					
GP	S-4	60/60	15	0.0	0.000		FILL	(15'-16') Moist, yellowish brown, SILT, some clay, some coarse to fine gravel (ML)
							FILL	(16'-20') Moist, gray, SILT, some coarse to fine gravel, little clay (ML)
			57.9					
GP	S-5	60/54	20	0.0	0.000		ML	(20'-25') Moist to wet, gray, SILT, some coarse to fine gravel, little medium to fine sand, trace clay (TILL)
			52.9					
			25					End of exploration at 25ft bgs

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-26B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.84
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 22
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,397.77 E 900,807.02

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.8 0					(0-10') See SB-LF2-26 boring log for lithologic description.
			72.8 5					
			67.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 21-22' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-26, 1' from original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-26B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.8 10 62.8 15 57.8 20					(10-21') See SB-LF2-26 boring log for lithologic description.
GP	S-1	12/12		0.0	0.000		ML	(21-22') Moist, gray-dark gray, SILT, some clay, little coarse-fine angular and rounded gravel, little coarse-fine sand. (ML)
			52.8 25					End of Exploration at 22' BGS.

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BOREHOLE LOG

SB-LF2-27

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 70.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 10
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/23/2015 **End:** 06/23/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,491.89 E 900,836.64

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			70.1					
GP	S-1	60/38	0	0.0	0.004		FILL	(0'-2') Moist, brown, SILT, little fine sand, trace organics (ML)
							FILL	(2'-4.5') Wet, brown, medium to fine SAND, trace silt (SM)
			65.1				FILL	(4.5'-5') Moist, dark brown, SILT, trace organics (OL)
GP	S-2	60/36	5	0.0	0.003		OL	(5'-5.8') Moist, dark brown, SILT, trace organics
							SP-SM	(5.8'-9.3') Wet, gray, fine SAND, trace silt
			60.1				GW	(9.3'-10') Wet, gray, coarse to fine GRAVEL, some course to fine sand

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Offset 1 foot east due to poor initial recovery.
VOCs and chloropicrin sampled at 2-3 ft and 3-4 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-27

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			60.1 / 10					End of exploration at 10 ft bgs.
			55.1 / 15					
			50.1 / 20					
			45.1 / 25					

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BOREHOLE LOG

SB-LF2-28

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.8
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/18/2015 **End:** 06/18/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,444.98 E 900,845.65

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.8					
GP	S-1	60/46	0	0.0	0.000		FILL	(0'-2.5') Dry, brown, SILT, some fine sand, little medium to fine gravel (ML)
							FILL	(2.5'-2.8') Granular black material
							FILL	(2.8'-3.8') Moist, dark brown, medium to fine SAND, trace fine gravel (SW)
							FILL	(3.8'-5') Moist, dark brown, fine SAND and SILT, some medium to fine gravel (ML)
			73.8					
GP	S-2	60/34	5	0.0	0.000		FILL	(5'-6') Moist, dark brown, medium to fine SAND, trace coarse to fine gravel (SP)
							FILL	(6'-10') Moist, yellow-brown, SILT, little fine gravel, little clay (ML) Observed wood debris at 8.5-9 ft and 9.8-10 ft bgs
			68.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-28

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.8					
GP	S-3	60/29	10	0.0	0.000		FILL	(10'-13') Moist, yellow-brown, SILT, little fine gravel, little clay (ML)
			63.8				FILL	(13'-15') Moist, light gray-brown, SILT and fine SAND, some coarse to fine gravel (ML)
			15					End of exploration at 15 ft bgs.
			58.8 / 20					
			53.8 / 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-28B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.77
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 17
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,444.98 E 900,845.65

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.8 0					(0-10') See boring log SB-LF2-28 for lithologic description.
			73.8 5					
			68.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 16-17' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-28, 1' from original boring location. Due to low recovery, it took 4 offset attempts to collect enough volume for analysis. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-28B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.8 10 63.8 15					(10-16') See boring log SB-LF2-28 for lithologic description.
GP	S-1	12/4		0.0	0.000		SM	(16-17') Moist-wet, gray, coarse-fine SAND and SILT, some coarse-fine angular gravel. (SM)
			58.8 20 53.8 25					End of Exploration at 17' BGS.

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-29

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/22/2015 **End:** 06/22/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,392.86 E 900,832.63

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.9					
GP	S-1	60/42	0	0.0			FILL	(0'-1.5') Moist, brown, medium to fine SAND, some silt, trace fine gravel, trace organics (SM)
							FILL	(1.5'-2.5') Moist, brown, coarse to fine SAND, trace silt, trace fine gravel (SW) Observed a rock at 2.5 ft bgs.
							FILL	(2.5'-4') Moist, gray-brown, SILT and coarse to fine SAND, trace medium to fine gravel, trace organics (ML)
							FILL	(4'-5') Wet, brown, SILT, some medium to fine sand, little medium to fine gravel (ML) Stones found in sleeve at 4-4.5 ft bgs
			71.9					
GP	S-2	60/40	5	0.0			FILL	(5'-5.5') Wet, brown, SILT, some medium to fine sand, little medium to fine gravel, trace organics (ML)
							SM	(5.5'-7.5') Wet, gray-brown, coarse to fine SAND and SILT, little medium to fine gravel, rock fragments (TILL)
							ML	(7.5'-10') Wet, brown, SILT, some coarse to fine sand, trace medium to fine gravel (TILL)
			66.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller noted hole "tightened" at 10ft bgs
Borehole readings: PID: 0.0ppm Jerome: 0.000mg/m3

Reviewed by: J. Gillen **Date:** 11/18/2015

BOREHOLE LOG

SB-LF2-29

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.9					
GP	S-3	60/47	10	0.0			ML	(10'-15') Wet, brown, SILT, some coarse to fine sand, trace medium to fine gravel (TILL) Observed fractured rock at 12.25 ft bgs and a pocket (quarter-sized) of white-black coarse to medium sand
			61.9					
			15					End of exploration at 15 ft bgs.
			56.9					
			20					
			51.9					
			25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-30

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/26/2015 **End:** 06/26/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,475.94 E 900,866.82

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.9					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-2') Moist, brown, SILT, some medium to fine gravel, trace fine sand, organics (ML)
							FILL	(2'-5') Moist, brown, medium to fine SAND, trace fine gravel (SP)
			70.9					
GP	S-2	60/40	5	0.0	0.000		FILL	(5'-5.5') Moist, brown, medium to fine SAND, trace fine gravel (SP)
							FILL	(5.5'-7.7') Moist, gray, CLAY, trace fine sand (CL)
							FILL	(7.7'-10') Moist, brown, medium to fine SAND (SP)
			65.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-30

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.9					
GP	S-3	60/48	10	0.0	0.000		FILL	(10'-10.6') Moist, brown, medium to fine SAND (SP)
							OL	(10.6'-11.4') Moist, dark brown, SILT, trace fine sand, trace organics
							CL	(11.4'-11.7') Moist, gray, CLAY
							SP	(11.7'-13') Moist, gray, fine SAND, trace silt
							GW	(13'-15') Moist, gray-brown, coarse to fine GRAVEL and SILT, little fine sand (TILL)
			60.9					
GP	S-4	60/34	15	0.0	0.000		GW	(15'-20') Wet, gray-brown, coarse to fine GRAVEL and SILT, little fine sand (TILL)
			55.9					
			20					End of exploration at 20 ft bgs.
			50.9					
			25					

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BOREHOLE LOG

SB-LF2-30B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.88
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 12
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,475.94 E 900,866.82

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.9 0					(0-10') See SB-LF2-30 boring log for lithologic descriptions.
			70.9 5					
			65.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 11-12' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-30, 1' from original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-30B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.9 10					(10-11') See SB-LF2-30 boring log for lithologic descriptions.
GP	S-1	12/12		0.0	0.000		ML	(11-12') Moist, gray, SILT and medium-fine SAND, little coarse-fine angular gravel, trace clay. (ML)
								End of Exploration at 12' BGS.
			60.9 15					
			55.9 20					
			50.9 25					

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BOREHOLE LOG

SB-LF2-31

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 71.243
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/22/2015 **End:** 06/22/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J.Gillen, J.Kocis

N 392,497.89 E 900,886.17

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			71.2					
GP	S-1	60/36	0	0.0			FILL	(0'-2.5') Moist, brown, SILT, some medium to fine sand, trace medium to fine gravel, trace organics (ML)
							FILL	(2.5'-4') Moist, gray-brown, SILT, some medium to fine sand (ML) Observed fractured stone at 2.5 ft bgs
							FILL	(4'-5') Wet, brown, coarse to fine SAND, trace silt (SP)
			66.2					
GP	S-2	60/41	5	0.0			OL	(5'-6.5') Moist, dark brown, SILT, trace fine sand, trace organics
							SM	(6.5'-7.5') Wet, gray, medium to fine SAND, some silt
							SM	(7.5'-10') Wet, gray-brown, medium to fine SAND and SILT (SM)
			61.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Discrete sampling for 10'-15' interval
Driller noted "tighter" stratum for 10'-15' interval
Samples collected up to 10 ft bgs
Native material encountered at 5 ft bgs

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-31

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			61.2					
GP	S-3	60/34	10	0.0			SW	(10'-13.5') Wet, gray-brown, coarse to fine SAND, some fractured rock, trace silt, trace medium to fine gravel
			56.2				GP	(13.5'-15') Wet, gray, medium to fine GRAVEL, some coarse to medium SAND
			15					End of exploration at 15 ft bgs.
			51.2 / 20					
			46.2 / 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-32

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.7
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/19/2015 **End:** 06/19/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,440.87 E 900,887.25

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.7					
GP	S-1	60/42	0	0.0			FILL	(0'-1') Dry, brown, medium to fine SAND, some silt, trace organics (SM)
							FILL	(1'-2.3') Moist, brown, coarse to fine SAND, some silt, trace medium gravel (SM)
							FILL	(2.3'-5') Moist, brown-gray, medium to fine SAND, little silt, trace fine gravel (SM)
			73.7					
GP	S-2	60/37	5	0.0			FILL	(5'-8.2') Moist, brown-gray, medium to fine SAND, little silt, trace fine gravel (SM)
							FILL	(8.2'-9.75') Moist, brown-gray, SILT, some coarse to fine sand, trace fine gravel (ML) Observed rock at 9.75 ft bgs
			68.7				FILL	(9.75'-10') Moist, brown-gray, coarse to fine SAND, some silt (SM)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller notes increase in tightness at 16' and again at 18'
Till encountered at 13'
Sampling ended at 17'

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-32

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.7					
			10				FILL	(10'-11.5') Moist, gray-brown, coarse to fine SAND, little silt, trace fine gravel (SW-SM)
GP	S-3	60/42		0.0			FILL	(11.5'-13') Wet, gray, coarse to fine SAND and SILT, trace fine to medium gravel (SM)
							ML	(13'-15') Wet, brown-gray, SILT and medium to fine SAND, trace fine gravel (TILL) Observed stone at 14.5 ft bgs
			63.7					
			15				ML	(15.'-15.2') Wet, brown-gray, SILT, and medium to fine sand, trace fine gravel (TILL)
							SM	(15.2'-16.3') Wet, gray-brown, coarse to fine SAND, little silt (TILL)
GP	S-4	60/41		0.0			ML	(16.3'-19') Wet, brown-gray, SILT, and coarse to fine sand, trace fine gravel (TILL) Observed rock at 17.4 ft bgs and 19 ft bgs
							ML	(19'-20') Wet, gray-brown, SILT, some coarse to fine sand (TILL)
			58.7					
			20					End of exploration at 20 ft bgs.
			53.7					
			25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-32B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.68
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 17
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,440.87 E 900,887.25

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.7 0					(0-10') See SB-LF2-32 boring log for lithologic descriptions.
			73.7 5					
			68.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 16-17' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-32, 1' from original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-32B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.7 10 63.7 15					(10-16') See SB-LF2-32 boring log for lithologic descriptions.
GP	S-1	12/12		0.0	0.000		ML	(16-17') Moist, gray-tan, SILT, some coarse-fine angular and rounded gravel, some medium-fine sand, little clay. (ML)
			58.7 20 53.7 25					End of Exploration at 17' BGS.

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-33

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.3
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/25/2015 **End:** 06/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,395.21 E 900,882.98

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.3					
GP	S-1	60/36	0	0.0	0.012		FILL	(0'-4.2') Dry, brown, medium to fine SAND, some coarse to fine gravel, trace silt, organics (SW)
							FILL	(4.2'-5') Moist, brown, SILT, little coarse to fine gravel, little fine sand (ML)
			71.3					
GP	S-2	60/28	5	0.0	0.004		FILL	(5'-8') Wet, brown-gray, medium to fine GRAVEL, some silt, trace fine sand (GM)
							FILL	(8'-9') Moist, brown, medium to fine GRAVEL, some fine sand, trace silt (SM)
							GM	(9'-10') Dry, gray, medium to fine GRAVEL, some fine sand, trace silt (TILL)
			66.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
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HA - Hand Auger
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and chloropicrin samples collected at 3-4 and 4-5 ft
Driller noticed increase in pressure at ~8-10 ft bgs

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-33

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.3					
GP	S-3	60/54	10	0.0	0.000		GM	(10'-15') Dry, gray, medium to fine GRAVEL, some fine sand, trace silt (TILL)
			61.3					
			15					End of exploration at 15 ft bgs.
			56.3					
			20					
			51.3					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-34

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 72.2
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/22/2015 **End:** 06/22/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,498.82 E 900,909.98

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			72.2					
GP	S-1	60/38	0	0.0			FILL	(0'-1.5') Moist, brown-gray, SILT, trace fine sand, trace fine gravel, trace organics (ML)
							FILL	(1.5'-3.25') Moist, brown, medium to fine SAND, trace silt, trace medium to fine gravel (SP-SM)
							FILL	(3.25'-4.5') Moist, brown, SILT, some medium to fine sand, trace fine gravel (ML)
			67.2				FILL	(4.5'-5') Moist, brown, medium to fine SAND, some silt (SP-SM)
GP	S-2	60/41	5	0.0			FILL	(5'-6.5') Wet, brown, medium to fine SAND, some silt (SP-SM)
							SM	(6.5'-7') Moist, dark brown, fine SAND and SILT, trace organics
							SP-SM	(7'-8.75') Wet, gray, medium to fine SAND, little silt
			62.2				SP-SM	(8.75'-10') Wet, brown-gray, medium to fine SAND, little silt (TILL)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
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BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller noted drilling difficulty/tightness on 10'-15' interval.
Borehole readings: PID = 0.0ppm; Jerome = 0.000 mg/m3
Poor recovery/Discrete sample on 10'-15' --> combined two samples

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-34

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			62.2					
GP	S-3	60/29	10	0.0			SP	(10'-15') Wet, gray-brown, coarse to fine SAND, little silt, little medium to fine gravel, trace rock fragments (TILL)
			57.2					
			15					End of exploration at 15 ft bgs.
			52.2					
			20					
			47.2					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-35

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.3
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 25
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/17/2015 **End:** 06/17/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,486.25 E 900,909.15

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.3					
GP	S-1	60/54	0	0.0	0.000		FILL	(0'-0.7') Dry, brown, SILT, little fine sand, trace roots (ML)
							FILL	(0.7'-1.9') Dry, light brown-gray, SILT, little gravel, trace fine sand (ML)
							FILL	(1.9'-4.5') Dry, dark brown, fine SAND, some gravel, little silt, little clay (SP)
			70.3				FILL	(4.5'-5') Moist, dark gray, medium to fine SAND, little gravel, little silt, little clay (SM/SC)
GP	S-2	60/42	5	0.0	0.000		FILL	(5'-6') Moist, dark gray, SILT, some coarse to fine gravel, some clay, little fine sand (ML)
							FILL	(6'-7.3') Moist, dark yellowish brown, SILT, little clay, trace fine gravel (ML)
							FILL	(7.3'-9.2') Moist, light gray-brown, medium to fine SAND, little silt, trace fine gravel (SW/SM)
			65.3				FILL	(9.2'-10') Moist, dark brown, SILT, some clay, trace fine gravel, trace organics (OL)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

0-5 ft bgs - pressure on Geoprobe
5-10 ft bgs - increased pressure
~12 ft bgs - very high pressure
15-20 ft bgs - very high pressure

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-35

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.3					
GP	S-3	60/36	10	0.0	0.000		SW	(10'-12.5') Moist-wet, yellowish brown-grayish brown, fine SAND, little silt
							SW	(12.5'-15') Moist-wet, gray-reddish brown, coarse to fine SAND, and coarse to fine gravel, little silt, little clay (TILL)
			60.3					
GP	S-4	60/60	15	0.0	0.000		SW	(15'-18') Moist, dark grayish brown, coarse to fine SAND, some gravel (TILL)
							GW	(18'-20') Wet, dark brown, coarse to fine GRAVEL, some fine sand, little silt, little clay (TILL)
			55.3					
GP	S-5	60/	20	0.0	0.000		GW	(20'-21.2') Wet, dark brown, coarse to fine GRAVEL, some fine sand, little silt, little clay (TILL)
							SC	(21.2'-25') Wet, gray, fine SAND, little clay (TILL)
			50.3					
			25					End of exploration at 25 ft bgs.

CDM Smith Geosyntec consultants

BOREHOLE LOG

SB-LF2-35B

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 7/20/2015 **End:** 7/20/2015
Borehole Coordinates:
N 392,486.25 E 900,909.15

Surface Elevation (ft.): 75.3
Total Depth (ft.): 16
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.3 0					(0-10') See SB-LF2-35 boring log for lithologic descriptions.
			70.3 5					
			65.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 15-16' BGS for VOCs, chloropicrin, PCBs, and cadmium. The Jerome MVA readings indicated represent the highest recorded values in that range.
Offset of SB-LF1-35, 1' from original boring location.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-35B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.3					
			10					(10-15') See LB-LF2-35 boring log for lithologic descriptions.
			60.3					
GP	S-1	12/12	15	0.0	0.000		SWG	(15-16') Wet-saturated, gray, coarse-fine SAND and coarse-fine angular GRAVEL, little silt. (SWG)
								End of Exploration at 16' BGS.
			55.3 / 20					
			50.3 / 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-36

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.0
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/25/2015 **End:** 06/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,452.66 E 900,909.56

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.0					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-2.3') Moist, brown, SILT, little fine sand, little medium to fine gravel, organics (ML)
							FILL	(2.3'-5') Moist, brown, medium to fine SAND, trace medium to fine gravel, trace silt (SP-SM)
			73.0					
GP	S-2	60/36	5	0.0	0.000		FILL	(5'-7.3') Wet, brown, medium to fine SAND, little medium to fine gravel, little silt (SP-SM)
							FILL	(7.3'-9') Moist, brown, SILT, little clay, trace fine sand (ML)
							FILL	(9'-10') Moist, brown, medium to fine SAND, little fine gravel, trace silt (SP-SM)
			68.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and Chloropicrin samples collected at 6-7 ft bgs and 7-8 ft bgs
off-set after 5 ft bgs - 1 ft bgs North

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-36

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.0					
			10				FILL	(10'-12.2') Wet, gray, SILT, trace fine sand (ML)
GP	S-3	60/26.4		0.0	0.000		GM-GC	(12.2'-14.4') Moist, gray-brown, coarse to fine GRAVEL, little fine sand, trace silt, trace clay (TILL)
			63.0				CL	(14.4'-15') Moist, gray, CLAY, trace fine sand, trace silt (TILL)
			15				GM-GC	(15'-19') Wet, gray, medium to fine GRAVEL, little fine sand, trace silt (TILL)
GP	S-3	60/24		0.0	0.000			
			58.0				SP	(19'-20') Moist, brown-gray, fine SAND, trace silt (TILL)
			20				SP	(20'-25') Wet, brown, medium to fine SAND (TILL)
GP	S-4	60/4		0.0	0.000			
			53.0					
			25					End of exploration at 25 ft bgs.

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-37

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 70.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/19/2015 **End:** 06/19/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,507.14 E 900,936.86

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			70.9					
GP	S-1	60/46	0	0.0			FILL	(0'-3') Moist, brown, medium to fine SAND, and silt, trace medium to fine gravel, organics (SM)
							FILL	(3'-4.5') Moist, brown, coarse to fine SAND, trace silt (SP-SM)
			65.9				ML	(4.5'-5') Moist, gray-brown, SILT, little coarse to fine sand wood chips at 4.6', organics
GP	S-2	60/44	5	0.0			SM	(5'-5.75') Wet, dark brown, coarse to fine SAND, little silt, little organics
							ML	(5.75'-10') Wet, brown, SILT and coarse to fine SAND, trace medium to fine gravel (TILL)
			60.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Borehole readings recorded at 10:28am: Jerome reading = 0.003 mg/m3 PID = 0.0 ppm
Native material encountered at 4.5 ft bgs
End sampling at 9 ft bgs

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-37

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			60.9					
			10				SM	(10'-12') Wet, brown, coarse to fine SAND, some silt, trace fine gravel (TILL) Observed rock fragments at 12 ft bgs
GP	S-3	60/35		0.0			GW	(12'-15') Wet, gray, medium to fine GRAVEL, some coarse to fine sand, trace silt (TILL) Observed rock fragments at 14.75 ft bgs
			55.9					
			15					End of exploration at 15 ft bgs.
			50.9 20					
			45.9 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-38

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Eric Woodward
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/19/2015 **End:** 06/19/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Gillen, J. Kocis

N 392,446.24 E 900,940.82

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.9					
GP	S-1	60/49	0	0.0			FILL	(0'-1.75') Moist, brown, medium to fine SAND and SILT, trace fine gravel, trace organics, trace rock fragments (SM)
							FILL	(1.75'-2.25') Moist, brown, medium to fine SAND, little silt, little coarse black slag (SP-SM)
							FILL	(2.25'-4.5') Wet, brown, medium to fine SAND, some silt, trace fine gravel (SM)
			70.9				FILL	(4.5'-5') Moist, gray-brown, SILT, little fine sand, trace fine gravel (ML)
GP	S-2	60/42	5	0.0			FILL	(5'-6.25') Moist, gray-brown, SILT, little fine sand, trace fine gravel (ML)
							FILL	(6.25'-7.25') Moist, gray-brown, coarse to fine SAND, little silt, trace fine gravel (SM)
							FILL	(7.25'-9') Wet, dark brown-gray, medium to fine SAND and SILT, little fine to medium gravel (SM)
			65.9				SM	(9'-10') Wet, brown, coarse to fine SAND and SILT, little fine gravel (TILL)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Native material at 9 ft bgs
Sampling ended at 13 ft bgs
Jerome = 0.000 mg/m3; PID = 0.0 ppm for reading at borehold

Reviewed by: J. Gillen **Date:** 11/18/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-38

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.9					
			10				SM	(10'-11') Wet, brown, coarse to fine SAND and SILT, little fine gravel (TILL)
GP	S-3	60/42		0.0			SM	(11'-15') Wet, brown, coarse to fine SAND and SILT, little medium to fine gravel (TILL)
			60.9					
			15					End of exploration at 15 ft bgs.
			55.9					
			20					
			50.9					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-39

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.2
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 20
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/24/2015 **End:** 06/24/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,414.39 E 900,931.74

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 75.2	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
GP	S-1	60/44	0	0.0	0.006		FILL	(0'-2.1') Moist, brown, SILT, little fine sand, little medium to fine gravel, trace organics (ML)
							FILL	(2.1'-2.7') Moist, brown, medium to fine SAND, some coarse to medium gravel (SW)
			70.2				FILL	(2.7'-5') Wet, light brown, medium to fine SAND, some silt, some medium to fine gravel (SW-SM)
GP	S-2	60/38	5	0.0	0.000		FILL	(5'-10') Moist-wet, brown-gray, coarse to fine GRAVEL, some medium to fine sand, little silt (GW-GM)
			65.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and Chloropicrin samples collected at 2-3 ft and 3-4 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-39

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.2					
GP	S-3	60/36	10	0.0	0.000		FILL	(10'-10.5') Moist, brown, medium to fine SAND, some silt, little medium to fine gravel (SW)
							FILL	(10.5'-11') Dry, white quartzite
							FILL	(11'-12.2') Moist, brown, fine SAND, some silt, little medium to fine gravel (SP)
							FILL	(12.2'-12.5') Moist, black, SILT, little medium to fine gravel (ML)
							GM	(12.5'-15') Wet, gray, medium to fine GRAVEL, trace silt, trace fine sand
			60.2					
GP	S-4	60/36	15	0.0	0.000		GM	(15'-20') Wet, gray, medium to fine GRAVEL, trace silt, trace fine sand
			55.2					
			20					End of exploration at 20 ft bgs.
			50.2					
			25					

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BOREHOLE LOG

SB-LF2-40

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 70.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/24/2015 **End:** 06/24/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,504.09 E 900,958.63

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			70.1					
GP	S-1	60/42	0	0.0	0.026		FILL	(0'-2.2') Moist, brown, SILT, trace fine sand, trace medium to fine gravel, trace organics (ML)
							FILL	(2.2'-3.6') Moist-wet, red-brown, medium SAND, trace medium to fine gravel, trace silt (SP)
							FILL	(3.6'-4') Moist, red-black, SILT, trace fine sand (OL)
							SM	(4'-5') Moist, light brown, fine SAND, some silt
			65.1					
			5				SM	(5'-7.6') Moist, light brown, fine SAND, some silt
GP	S-2	60/36		0.0	0.015		GW	(7.6'-10') Moist, gray, medium to fine GRAVEL, little fine sand (TILL)
			60.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Offset ~1.5 ft south due to poor recovery at 0-5 ft
VOCs and Chloropicrin samples collected at 4-5 ft and 5-6 ft
Driller noticed increase in pressure at 10-15 ft bgs

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-40

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			60.1					
GP	S-3	60/36	10	0.0	0.000		GW	(10'-15') Wet, gray, coarse to fine GRAVEL, little fine sand (TILL)
			55.1					
			15					End of exploration at 15 ft bgs.
			50.1					
			20					
			45.1					
			25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-41

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 72.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 06/24/2015 **End:** 06/24/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Kocis

N 392,458.39 E 900,974.51

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			72.1					
GP	S-1	60/37	0	0.0	0.008		FILL	(0'-2.7') Moist, brown, SILT, trace fine sand, little medium to fine gravel, trace organics (ML)
							SP-SM	(2.7'-4.1') Moist, brown, medium to fine SAND, trace silt
							SP	(4.1'-4.2') Moist, brown, medium to fine SAND, little medium gravel, roots (SP)
							SP	(4.2'-5') Moist, light brown, fine SAND, some medium to fine gravel, trace silt
			67.1					
			5				SP	(5'-8.1') Moist, light brown, fine SAND, some coarse to fine gravel, some silt
GP	S-2	60/31		0.0	0.009			
							SW	(8.1'-9.2') Wet, gray, coarse to medium SAND, little medium to fine gravel
							GM	(9.2'-10') Wet, gray, coarse to medium GRAVEL, trace silt, trace fine sand (TILL)
			62.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

VOCs and Chloropicrin sampled at 4-5 ft and 5-6 ft

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-41

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			62.1					
GP	S-3	60/40	10	0.0	0.003		SP	(10'-15') Wet, light brown-gray, fine SAND, trace silt, trace fine gravel (TILL)
			57.1					
			15					End of exploration at 15 ft bgs.
			52.1					
			20					
			47.1					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

SB-LF2-41A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/11/2015 **End:** 8/11/2015
Borehole Coordinates:
N 392,458.39 E 900,974.51

Surface Elevation (ft.): 72.1
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			72.1 0					(0-1') See SB-LF2-41 boring log for lithologic descriptions.
GP	S-1	12/12		0.0	0.000		SM	(1-2') Dry, light brown-gray medium-fine SAND and SILT, some coarse-fine sub-angular gravel, trace organics, roots. (SM)
			67.1 5					End of Exploration at 2' BGS.
			62.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 1-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-41, 1' southeast of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-42

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Jackhammer Probe
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/10/2015 **End:** 7/10/2015
Borehole Coordinates:
N 392,415.80 E 900,676.32

Surface Elevation (ft.): 67.93
Total Depth (ft.): 4.5
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.9					
GP	S-1	24/20	0	0.0	0.000		FILL	(0-0.5') Dry, brown, SILT, some fine sand, trace organics. (ML)
				0.0			ML	(0.5-1.5') Moist, gray, SILT, some coarse-fine sand, trace medium-fine gravel, trace organics. (ML)
							ML	(1.5-2') Wet, dark brown-gray, SILT, some clay, little medium-fine sand, trace organics. (ML)
GP	S-2	24/12		0.0	0.000		ML	(2-2.5') Same as 1.5-2' BGS.
				0.0			SM	(2.5-4') Wet, gray, fine SAND and SILT, trace fine angular gravel. (SM)
GP	S-3	6/6		0.0	0.000		SW	(4-4.5') Wet-saturated, gray, coarse-fine SAND and coarse-fine angular GRAVEL, some silt, trace clay. (SW)
			62.9 / 5					End of Exploration - Geoprobe encountered refusal at 4.5' BGS.
			57.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 4.5' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-43

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 71.44
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 20
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/8/2015 **End:** 7/8/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,396.76 E 900,667.82

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			71.4					
GP	S-1	60/32	0	0.0	0.000		FILL	(0-1') Moist, reddish brown, fine SAND and SILT, trace clay, trace roots. (SM)
				0.0			FILL	(1-4.5') Moist-wet, gray-olive, SILT, some clay, little fine sand. (ML)
				0.0				
				0.0				
				0.0				
			66.4				FILL	(4.5-5') Moist, gray, coarse-fine SAND, little silt. (SW)
GP	S-2	60/46	5	0.0	0.000		FILL	(5-6') Same as 4.5-5' BGS.
				0.9			FILL	(6-7') Wet, dark gray-black, medium-fine SAND, little silt, trace medium-fine angular gravel. (SP)
				0.5			FILL	(7-9.5') Wet, dark gray-olive gray, SILT, little clay, little medium-fine rounded gravel, little medium-fine sand. (ML)
				0.0				
				0.0				
			61.4				FILL	(9.5-10') Wet, light tan, with orange streaks, SILT, some coarse-fine angular gravel with clay, little medium-fine sand. (ML)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 20' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-43

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			61.4					
GP	S-3	60/59	10	0.0	0.000		FILL	(10-12.5') Same as 9.5-10' BGS, wet-saturated. Driller noted tighter drilling conditions at 12' BGS, increasing to 20' BGS.
				0.0				
				0.0			ML	(12.5-15') Wet, gray-light gray, SILT, some clay, little coarse-fine sand, little medium-fine angular gravel. (ML)
				0.0				
				0.0				
			56.4					
GP	S-4	60/40	15	0.0	0.000		ML	(15-20') Same as 12.5-15' BGS.
				0.0				
				0.0				
				0.0				
			51.4					
			20					End of Exploration at 20' BGS.
			46.4					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

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BOREHOLE LOG

SB-LF2-44

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/8/2015 **End:** 7/8/2015
Borehole Coordinates:
N 392,368.21 E 900,677.05

Surface Elevation (ft.): 75.43
Total Depth (ft.): 25
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.4					
GP	S-1	60/37	0	0.0	0.000		FILL	(0-0.5') Dry, brown, fine SAND and SILT, trace roots. (SM)
				0.0			FILL	(0.5-2.5') Moist, gray, SILT, some medium-fine sand, trace medium-fine rounded gravel. (ML)
				0.0				
				0.0			FILL	(2.5-4') Moist, brown, fine SAND, some silt, trace medium-fine rounded gravel. (SP)
				0.0				
				0.0			FILL	(4-5') Moist, dark brown, medium-fine SAND, little silt, trace medium-fine rounded gravel. (SW)
			70.4					
GP	S-2	60/30	5	0.0	0.000		FILL	(5-6') Moist, dark brown, SILT, little coarse-fine sand, trace medium-fine gravel. (ML)
				0.0			FILL	(6-7') Moist, gray-brown, medium-fine SAND, some coarse-fine angular gravel, little silt. (SW)
				1.6			FILL	(7-8') Wet, black-dark gray, coarse-fine SAND, some coarse-fine angular gravel. (SW)
				1.6			FILL	(8-9') Wet, black, SILT. (MH)
				0.9			FILL	(9-10') Wet, light tan, SILT, some clay, little coarse-fine sand, trace medium-fine gravel. (ML)
			65.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 25' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-44

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.4					
GP	S-3	60/49	10	1.2	0.000		FILL	(10-12') Wet-saturated, black, SILT, some coarse-fine sand. (MH)
				0.0				
				0.0			FILL	(12-13') Same as 9-10' BGS with gray streaks.
				0.0			FILL	(13-13.5') Wet, dark gray, coarse-fine SAND, little silt. (SW)
							FILL	(13.5-15') Same as 9-10' BGS. Driller noted tighter drilling conditions at 14' BGS.
				0.0				
			60.4					
GP	S-4	60/40	15	0.0	0.000		FILL	(15-18') Wet-saturated, tan-gray, SILT, some coarse-fine angular gravel, little coarse-fine sand, little clay. (ML)
				0.0				
				0.0				
				0.0			ML	(18-20') Moist-wet, gray, SILT, some clay, some coarse-fine angular gravel, little coarse-fine sand. (ML)
				0.0				
			55.4					
GP	S-5	60/45	20	0.0	0.000		ML	(20-25') Same as 18-20' BGS but moist.
				0.0				
				0.0				
				0.0				
				0.0				
			50.4					
			25					End of Exploration at 25' BGS.

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

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BOREHOLE LOG

SB-LF2-45

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.91
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/8/2015 **End:** 7/8/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,353.90 E 900,696.60

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.9					
GP	S-1	60/42	0	0.0	0.000		FILL	(0-1') Dry, light tan-light gray, SILT and fine SAND, little fine rounded gravel, trace roots. (ML)
				0.0			FILL	(1-4.5') Dry, brown-tan with dark gray and orange mottled streaks, coarse-fine SAND, some silt, little coarse-fine angular gravel.
				0.0				
				0.0				
				0.0				
			72.9				FILL	(4.5-5') Moist, gray-brown, medium-fine SAND, little silt, little medium-fine angular gravel. (SW)
GP	S-2	60/41	5	0.0	0.000		FILL	(5-7') Moist, gray, medium-fine SAND, trace medium0fine gravel, trace silt. (SW)
				0.0				
				0.0			FILL	(7-9') Wet, purple-gray, coarse SAND and fine sub-angular GRAVEL, little silt. Driller noted tighter drilling conditions at 8' BGS. (SP)
				0.0				
				0.0			ML	(9-10') Moist, gray, SILT, some clay, little coarse-fine angular gravel, trace fine sand. (ML)
			67.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-45

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.9					
			10				ML	(10-11.5') Same as 9-10' BGS.
				0.0				
				0.0			ML	(11.5-15') Moist, tan-brown, SILT, little clay, little coarse-fine angular gravel, little coarse-fine sand. (ML)
GP	S-3	60/45		0.0	0.000			
				0.0				
				0.0				
			62.9					
			15					End of Exploration at 15' BGS.
			57.9 / 20					
			52.9 / 25					

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BOREHOLE LOG

SB-LF2-46

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/8/2015 **End:** 7/8/2015
Borehole Coordinates:
N 392,350.40 E 900,724.94

Surface Elevation (ft.): 77.83
Total Depth (ft.): 14.5
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.8					
GP	S-1	60/47	0	0.0	0.000		FILL	(0-2.5') Dry, brown with gray, orange, and tan mottling, coarse-fine SAND, little coarse-fine angular gravel, little silt. (SW)
				0.0				
				0.8			FILL	(2.5-3') Dry, white-light gray, coarse-fine angular GRAVEL, some coarse-fine sand, trace silt. (GW)
				1.4			FILL	(3-4') Moist, brown and gray, coarse-fine SAND, some coarse-fine angular gravel, little silt. (SW)
				1.4			FILL	(4-5') Moist, gray, coarse-fine SAND and SILT, some coarse-fine angular gravel, trace clay, trace organics. (SM)
			72.8					
GP	S-2	60/31	5	0.0	0.000		ML	(5-9') Moist, gray, SILT, some coarse-fine sand, little coarse-fine angular gravel, trace clay, white cobble at 8.5' BGS. Driller noted tighter drilling conditions from 5-10' BGS. (ML)
				0.0				
				0.0				
				0.0				
				1.5			GW	(9-9.5') Dry, white and black, coarse-fine angular GRAVEL and coarse-fine SAND. (GW)
			67.8				ML	(9.5-10') Same as 5-9' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
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FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 14.5' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-46

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.8					
			10	0.0			ML	(10-12') Same as 5-9' BGS but wet.
				0.0				
GP	S-3	54/49		0.0	0.000		ML	(12-14.5') Moist, tan-brown, SILT, some coarse-fine angular gravel, little coarse-fine sand, little silt, coarse white gravel at 12.5' and 14' BGS. Driller noted extreme tightness at 14' BGS. (ML)
				0.0				
				0.0				
			62.8 / 15					End of Exploration - Geoprobe encountered refusal at 14.5' BGS.
			57.8 / 20					
			52.8 / 25					

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BOREHOLE LOG

SB-LF2-47

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.87
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,353.57 E 900,753.66

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.9					
GP	S-1	60/36	0	0.0	0.000		FILL	(0-2') Dry, light brown, coarse-fine SAND, little coarse-fine angular gravel, trace silt. (SW)
				0.0				
				0.0			FILL	(2-5') Dry, gray-brown, coarse-fine SAND, some silt, some coarse-fine angular gravel, trace clay. (SW)
				0.0				
				0.0				
			72.9					
GP	S-2	60/50	5	0.0	0.000		FILL	(5-7') Same as 2-5' BGS, but moist.
				0.0				
				0.0			ML	(7-10') Moist, reddish-tan, SILT, little coarse-fine sand, little coarse-fine angular gravel, little clay. (ML)
				0.0				
				0.0				
			67.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-47

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.9					
GP	S-3	60/50	10	0.0	0.000		ML	(10-15') Same as 7-10' BGS, but tan-gray.
				0.0				
				0.0				
				0.0				
				0.0				
			62.9					
			15					End of Exploration at 15' BGS.
			57.9					
			20					
			52.9					
			25					

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BOREHOLE LOG

SB-LF2-48

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Borehole Coordinates:
N 392,367.68 E 900,786.44

Surface Elevation (ft.): 77.41
Total Depth (ft.): 15
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.4					
GP	S-1	60/40	0	4.0	0.000		FILL	(0-1.5') Dry, brown, coarse-fine SAND, little medium fine angular gravel, little silt. (SW)
				4.2			FILL	(1.5-2.5') Dry, white-light gray, coarse-fine angular GRAVEL and coarse-fine SAND. (GW)
				5.6			FILL	(2.5-4.5') Dry, brown, coarse-fine SAND, some coarse-fine gravel, trace silt. (SW)
				5.5				
				0.0			FILL	(4.5-5') Dry, gray, coarse GRAVEL. (GP)
			72.4					
GP	S-2	60/42	5	0.0	0.000		FILL	(5-7') Moist, tan-gray, SILT, some fine sand, little clay, trace medium-fine gravel, 1 seam of medium-fine sand at 7' BGS. (ML)
				1.2				
				5.4			ML	(7-10') Moist, tan-brown, SILT, little coarse-fine angular gravel, little clay, little coarse-fine sand. (ML)
				4.9				
				6.3				
			67.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-48

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.4					
			10				ML	(10-11') Same as 7-10' BGS.
				5.4				
							ML	(11-15') Moist-wet, gray-tan, SILT, little clay, little coarse-fine sand, little coarse-fine angular gravel. Driller noted tighter drilling conditions at 12' BGS. (ML)
				4.0				
GP	S-3	60/51		2.0	0.000			
				1.0				
				2.7				
			62.4					
			15					End of Exploration at 15' BGS.
			57.4					
			20					
			52.4					
			25					

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BOREHOLE LOG

SB-LF2-49

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Borehole Coordinates:
N 392,374.87 E 900,835.26

Surface Elevation (ft.): 77.29
Total Depth (ft.): 15
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.3					
GP	S-1	60/36	0	4.3	0.000		FILL	(0-0.5') Moist, dark brown, SILT, some medium-fine sand, some coarse-fine angular gravel, trace roots and organic matter. (ML)
				0.0			FILL	(0.5-2') Moist, brown, medium-fine SAND, little medium-fine angular gravel, little silt. (SP)
				0.0			FILL	(2-3') Moist, brown-gray, coarse-fine SAND, some coarse-fine angular gravel. (SW)
				0.0			FILL	(3-5') Moist, tan with orange streaks, fine SAND and SILT, little coarse-fine angular gravel, trace clay. (SM)
			72.3	7.0				
GP	S-2	60/41	5	0.0	0.000		FILL	(5-8') Same as 3-5' BGS.
				0.0				
				7.2				
				0.0			FILL	(8-8.5') Dry, white-light gray, coarse-fine GRAVEL, little coarse-fine sand. (GW)
				9.0			ML	(8.5-10') Moist, tan with gray streaks, SILT, some coarse-fine sand, little coarse-fine angular gravel, little clay. (ML)
			67.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-49

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.3					
GP	S-3	60/43	10	0.0	0.000		ML	(10-12') Same as 8.5-10' BGS.
				0.0				
				0.0			GW	(12-12.5') Dry, light gray, coarse-fine angular GRAVEL and medium-fine SAND. (GW)
							ML	(12.5-15') Dry-moist, gray with orange and white mottling, SILT, some medium-fine sand, little coarse-fine angular gravel, little clay, bottom 3: white, coarse angular gravel mixed in prominently with matrix. (ML)
				0.0				
				5.8				
			62.3					
			15					End of Exploration at 15' BGS.
			57.3					
			20					
			52.3					
			25					

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BOREHOLE LOG

SB-LF2-50

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.65
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 10
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,384.70 E 900,882.47

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.7					
GP	S-1	60/32	0	0.0	0.000		FILL	(0-3') Dry, brown, coarse-fine SAND, some coarse-fine rounded-sub angular gravel, trace silt, trace roots. (SW)
				0.0				
				0.0				
				0.0			SM	(3-5') Moist, tan-brown, medium-fine SAND and SILT, little coarse-fine angular gravel, trace clay, 3 seam of white coarse-medium gravel at 4' BGS. (SM)
				0.0				
			71.7					
GP	S-2	60/52	5	3.8	0.000		ML	(5-7') Moist, gray-tan, SILT, some coarse-fine gravel, some medium-fine sand, trace clay. Driller noted tighter drilling conditions starting at 5' BGS. (ML)
				0.0				
				0.0			ML	(7-10') Moist, light brown, SILT and coarse-fine SAND, some coarse-fine angular gravel, trace clay. (ML)
				0.0				
				6.1				
			66.7					
			10					End of Exploration at 10' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 10' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

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BOREHOLE LOG

SB-LF2-50A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/11/2015 **End:** 8/11/2015
Borehole Coordinates:
N 392,384.70 E 900,882.47

Surface Elevation (ft.): 76.65
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.7					
GP	S-1	24/23	0	0.8	0.000		FILL	(0-0.5') Dry, light brown, SILT and fine SAND, trace organics, roots. (ML)
				0.0			FILL	(0.5-2') Dry, gray and light brown, coarse-fine SAND and coarse-fine angular GRAVEL, trace silt. (SW)
			71.75					End of Exploration at 2' BGS.
			66.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 0-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-50, 1' off original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/26/15

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BOREHOLE LOG

SB-LF2-51

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.63
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,400.61 E 900,935.48

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.6					
GP	S-1	60/35	0	0.0	0.000		FILL	(0-3') Dry, brown, coarse-fine SAND, little medium-fine angular gravel, trace silt, trace roots. (SW)
				0.0				
				0.0				
				0.0			FILL	(3-5') Moist, tan, coarse-fine SAND and SILT, little coarse-fine angular gravel, trace clay. (SM)
				0.0				
			70.6					
GP	S-2	60/56	5	0.0	0.000		FILL	(5-6.5') Same as 3-5' BGS.
				0.0			FILL	(6.5-8.5') Moist, reddish-brown with black streaks from 7.5-8.5' BGS, coarse-fine SAND and SILT, little coarse-fine angular gravel, little clay. Driller noted tighter conditions at 6.5' BGS. (SM)
				0.0				
				0.0			ML	(8.5-10') Dry, tan-white, SILT and fine SAND, some coarse-fine gravel. (ML)
				5.7				
			65.6					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-51

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.6					
GP	S-3	60/58	10	0.0	0.000		SM	(10-13') Dry-moist, tan-light gray, coarse-fine SAND and SILT, some coarse-fine angular gravel. (SM)
				0.0				
				0.0				
				0.0			ML	(13-15') Dry, gray and tan, SILT and coarse-fine SAND, some coarse-fine angular gravel, trace clay. (ML)
				0.0				
			60.6					
			15					End of Exploration at 15' BGS.
			55.6 / 20					
			50.6 / 25					

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BOREHOLE LOG

SB-LF2-51A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/11/2015 **End:** 8/11/2015
Borehole Coordinates:
N 392,400.61 E 900,935.48

Surface Elevation (ft.): 75.63
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 75.6	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
GP	S-1	24/21	0	0.0 0.0	0.000		FILL	(0-2') Dry, brown, coarse-fine SAND, some medium-fine rounded and sub-angular gravel, little silt, trace organics, roots, grass. (SW)
			70.6 5					End of Exploration at 2' BGS.
			65.6					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 0-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-51, 1' northeast of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-52

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Borehole Coordinates:
N 392,429.03 E 900,961.10

Surface Elevation (ft.): 74.63
Total Depth (ft.): 15
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			74.6					
GP	S-1	60/34	0	0.0	0.000		FILL	(0-0.5') Dry-moist, medium-fine SAND and SILT, trace clay, trace roots. (SM)
				0.0			FILL	(0.5-4.5') Moist, brown, SILT, some medium-fine sand, trace medium-fine gravel. (ML)
				0.0				
				0.0				
				0.0				
				0.0				
			69.6				FILL	(4.5-5') Moist, brown, coarse-fine SAND, some silt, little coarse-fine angular white-clear gravel in tip of spoon. (SW)
GP	S-2	60/38	5	0.0	0.000		FILL	(5-6') Same as 4.5-5' BGS, white-clear gravel at top of spoon.
				0.0			ML	(6-10') Moist, tan and gray, SILT and coarse-fine SAND, some coarse-fine angular gravel, trace clay. (ML)
				0.0				
				0.0				
				0.0				
			64.6					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-52

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			64.6					
GP	S-3	60/41	10	0.0	0.000		ML	(10-15') Same as 6-10', grading from more tan to more gray towards 15' BGS. Driller noted tighter drilling conditions at 13' BGS.
				0.0				
				0.0				
				0.0				
				0.0				
			59.6					
			15					End of Exploration at 15' BGS.
			54.6					
			20					
			49.6					
			25					

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BOREHOLE LOG

SB-LF2-53

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/9/2015 **End:** 7/9/2015
Borehole Coordinates:
N 392,515.86 E 900,964.84

Surface Elevation (ft.): 67.72
Total Depth (ft.): 10
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.7					
GP	S-1	60/39	0	0.0	0.000		FILL	(0-0.5') Moist, brown, coarse-fine SAND, little silt, trace roots and organic material. (SW)
							FILL	(0.5-1') Moist, dark brown, SILT, trace clay, trace fine sand, trace organic material. (ML)
				0.0			SM	(1-5') Wet, tan with orange streaks, fine SAND and SILT, trace clay. (SM)
				0.0				
				0.0				
				0.0				
			62.7	0.0				
GP	S-2	60/42	5	0.0	0.000		SM	(5-8') Saturated, tan, fine SAND and SILT, little fine angular gravel. (SM)
				0.0				
				0.0				
				0.0			SC	(8-9.5') Wet-saturated, gray and orange, coarse-fine SAND and CLAY, little silt, the sand was orange, clay was gray. (SC)
				0.0				
			57.7	0.0			SM	(9.5-10') Wet, gray-dark gray, fine SAND and SILT, some coarse-fine angular gravel, trace clay. (SM)
			10					End of Exploration at 10' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 10' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-54

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Jackhammer Probe
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/10/2015 **End:** 7/10/2015
Borehole Coordinates:
N 392,517.47 E 900,936.23

Surface Elevation (ft.): 67.66
Total Depth (ft.): 8
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.7					
GP	S-1	24/20	0	0.0	0.000		FILL	(0-0.5') Moist, brown, SILT, some fine sand, trace clay, trace roots. (ML)
				0.0			ML	(0.5-1.5') Moist, gray, SILT, trace clay, trace fine sand, trace organics. (ML)
							SM	(1.5-2') Moist, gray and black, fine SAND and SILT, little clay, trace coarse sand. (SM)
GP	S-2	24/20		0.0	0.000		SM	(2-3') Same as 1.5-2' BGS.
				0.0			SM	(3-4') Wet, tan and orange, fine SAND and SILT. (SM)
GP	S-3	24/19	62.7 / 5	0.0	0.000		SM	(4-6') Same as 3-4' BGS.
				0.0				
GP	S-4	24/14		0.0	0.000		SM	(6-6.5') Same as 3-4' BGS.
				0.0			CL	(6.5-8') Wet, dark gray-black, CLAY and SILT. (CL)
								End of Exploration at 8' BGS.
			57.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 8' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-54A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Jackhammer Probe
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/11/2015 **End:** 8/11/2015
Borehole Coordinates:
N 392,517.47 E 900,936.23

Surface Elevation (ft.): 67.66
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.7					
GP	S-1	24/20	0	0.0	0.000		FILL	(0-1.5') Dry, light brown, medium-fine SAND and SILT, little coarse-fine sub-angular gravel, trace organics and roots. (SM)
				0.0			ML	(1.5-2') Moist, dark brown, SILT, some clay, little organics - peat, roots; little fine sand. (ML)
								End of Exploration at 2' BGS.
			62.7 / 5					
			57.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 0-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-54, 1' east of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/26/15

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BOREHOLE LOG

SB-LF2-55

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 69.32
Drilling Method/Rig: DPT/Jackhammer Probe
Total Depth (ft.): 9.5
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/10/2015 **End:** 7/10/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,508.81 E 900,907.22

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			69.3					
GP	S-1	24/24	0	12.6 15.6	0.000		FILL	(0-0.5') Dry, light brown, fine SAND, some silt, trace roots and organics. (SP)
							ML	(0.5-2') Moist, gray-light brown, SILT, some clay, little coarse-fine sand. (ML)
GP	S-2	24/14		0.0 0.0	0.000		SW	(2-3.5') Moist, brown, coarse-fine SAND, trace organics. (SW)
							CL	(3.5-4') Wet, dark brown-black, CLAY and SILT, little medium-fine sand, 1 seam of wood at 3.7' BGS. (CL)
GP	S-3	24/20	64.3 5	0.0 0.0	0.000		CL	(4-4.5') Same as 3.5-4' BGS.
							SM	(4.5-6') Wet, tan and orange, medium-fine SAND and SILT, trace clay. (SM)
GP	S-4	24/21		0.0 0.0	0.000		SM	(6-7') Same as 4.5-6' BGS.
							ML	(7-8') Wet, gray with orange streaks, SILT, some fine sand, little clay. (ML)
GP	S-5	18/18		0.0 0.0	0.000		ML	(8-9.5') Saturated, gray, SILT and fine SAND. (ML)
			59.3					End of Exploration - Jackhammer probe encountered refusal at 9.5'

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 9.5' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-56

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 68.92
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 10
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,388.53 E 900,643.72

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.9					
GP	S-1	60/34	0	0.0	0.000		FILL	(0-1') Moist, brown, fine SAND and SILT, trace organics - roots and twigs. (SM)
				0.0			FILL	(1-2') Moist, gray, SILT and fine SAND. (ML)
				0.0			FILL	(2-3') Moist, brown, fine SAND and SILT, little coarse-fine sub-angular gravel, trace clay, trace organics (dead grass). (SM)
				0.0			FILL	(3-4.5') Dry-moist, tan, SILT, some fine sand, little coarse-fine sub-angular gravel, trace clay. (ML)
				0.0			GW	(4.5-5') Dry, light gray-white, coarse-fine GRAVEL and coarse-medium SAND. (GW)
			63.9					
GP	S-2	60/36	5	0.0	0.000		ML	(5-7.5') Wet, brown-tan, SILT, some coarse-fine angular gravel, some coarse-fine sand, trace clay. (ML)
				0.0				
				0.0			ML	(7.5-10') Moist, gray, SILT, little coarse-fine angular and rounded gravel, little coarse-fine sand, little clay. Driller noted tighter conditions at 8' BGS. (ML)
				0.0				
				0.0				
			58.9					
			10					End of Exploration at 10' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 10' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

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BOREHOLE LOG

SB-LF2-56A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Jackhammer Probe
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Borehole Coordinates:
N 392,388.53 E 900,643.72

Surface Elevation (ft.): 68.92
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.9					
GP	S-1	24/17	0	0.0 0.0	0.000		FILL ML	(0-0.5') Dry, brown, fine SAND and SILT, trace organics - roots and grass. (SM) (0.5-2') Dry, gray-brown, SILT and medium-fine SAND, little coarse-fine sub-angular gravel, little clay. (ML)
			63.9 5					End of Exploration at 2' BGS.
			58.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 0-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-56, 1' east of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-57

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Borehole Coordinates:
N 392,346.87 E 900,649.73

Surface Elevation (ft.): 75.9
Total Depth (ft.): 15
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 75.9	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
GP	S-1	60/24	0	0.0	0.000		FILL	(0-0.5') Dry, dark brown, coarse-fine SAND, trace silt, trace fine sub-angular gravel, trace organics. (SW)
				0.0			FILL	(0.5-4') Dry, brown-light tan, medium-fine SAND, little silt, little medium-fine angular gravel. (SP)
				0.0				
				0.0				
				0.0			FILL	(4-5') Dry-moist, gray-brown, coarse-fine SAND and coarse-fine angular GRAVEL trace silt. (SW)
			70.9					
GP	S-2	60/9	5	0.0	0.000			(5-10') Insufficient Recovery. See SB-LF2-57A for lithologic description details.
				0.0				
				0.0				
				0.0				
			65.9	0.0				

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-57

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.9					
GP	S-3	60/60	10	0.0	0.000		ML	(10-13.5') Moist, brown-tan, SILT and medium-fine SAND, little coarse-fine angular and sub-angular gravel. Driller noted tighter conditions at 12' BGS. (ML)
				0.0				
				0.0				
				0.0			ML	(13.5-15') Moist, gray, SILT, some coarse-fine sand, some coarse-fine angular gravel, little clay. (ML)
				0.0				
			60.9					
			15					End of Exploration at 15' BGS.
			55.9					
			20					
			50.9					
			25					

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BOREHOLE LOG

SB-LF2-57A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, J. Haines
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Borehole Coordinates:
N 392,346.87 E 900,649.73

Surface Elevation (ft.): 75.9
Total Depth (ft.): 10
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.9 0					(0-5') See SB-LF2-57 for lithologic descriptions.
			70.9 5				FILL	(5-6') Moist, brown, coarse-fine SAND, little silt. (SW)
				0.0			FILL	(6-6.5') Wet, black, SILT, some clay, trace coarse-fine sand. (MH)
				0.0			FILL	(6.5-7') Wet, dark gray-brown, medium-fine SAND and SILT, trace fine angular gravel. (SM)
GP	S-1	60/50		0.0	0.000		ML	(7-10') Wet-moist, gray with black and red streaks, SILT and coarse-fine SAND, little clay, little medium-fine angular gravel. (ML)
				0.0				
				0.0				
			65.9 10					End of Exploration at 10' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 5-10' BGS for Hg (XRF/DMA). Offset of SB-LF2-57, 1' from original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-57B

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.9
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 8
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,346.87 E 900,649.73

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.9 0					(0-7') No sample collected. See SB-LF2-57 boring logs for lithologic descriptions.
			70.9 5					
GP	S-1	12/12		0.0	0.000		SW	(7-8') Wet, tan-light brown, coarse-fine SAND, little silt, little fine sub-angular gravel, trace clay. (SW)
			65.9					End of Exploration at 8' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 7-8' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-56, 1' northeast of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-58

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.58
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/17/2015 **End:** 7/17/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,322.51 E 900,679.18

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.6					
GP	S-1	60/19	0	0.0	0.000		FILL	(0-0.5') Dry, dark brown, medium-fine SAND, little silt, little organics - roots. (SP)
				0.0			FILL	(0.5-4') Dry, light brown, coarse-fine SAND, little silt, little medium-fine sub angular gravel. (SW)
				0.0				
				0.0				
				0.0				
				0.0			FILL	(4-5') Dry, light gray-white, coarse-fine angular and sub-angular GRAVEL, and coarse-fine SAND. (GW)
			72.6					
GP	S-2	60/34	5	0.0	0.000		FILL	(5-8') Moist, brown with red streaks, coarse-fine SAND, some medium-fine angular gravel, little silt. (SW)
				0.0				
				0.0				
				0.0			SM	(8-10') Moist, brown and gray, medium-fine SAND and SILT, some coarse-fine angular gravel, trace clay. (SM)
				0.0				
			67.6					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-58

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.6					
GP	S-3	60/49	10	0.0	0.000		SW	(10-12') Dry-moist, brown-gray, coarse-fine SAND, some silt, little coarse-fine rounded gravel. (SW)
				0.0				
				0.0			SM	(12-13.5') Moist-wet, brown-gray, coarse-fine SAND and SILT, some coarse-fine angular and sub-angular gravel. Driller noted tighter conditions at 12' BGS. (SM)
				0.0			SM	(13.5-15') Dry, gray, coarse-fine SAND and SILT, little medium-fine angular gravel. (SM)
				0.0				
			62.6					
			15					End of Exploration at 15' BGS.
			57.6					
			20					
			52.6					
			25					

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BOREHOLE LOG

SB-LF2-58A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Borehole Coordinates:
N 392,322.51 E 900,679.18

Surface Elevation (ft.): 77.58
Total Depth (ft.): 7
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.6 0					(0-5') No sample collected. See SB-LF2-58 boring log for lithologic details.
			72.6 5				SP	(5-5.5') Dry, gray-brown, medium-fine SAND, little silt, little medium-fine angular and sub-angular gravel. (SP)
GP	S-1	24/19		0.0 0.0	0.000		SM	(5.5-7') Dry, gray and tan, coarse-fine SAND and SILT, some coarse-fine angular and sub-angular gravel. (SM)
			67.6					End of Exploration at 7' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 5-7' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-58, 1' northwest of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-59

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.94
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/16/2015 **End:** 7/16/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,333.96 E 900,710.70

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.9					
GP	S-1	60/28	0	0.0	0.000		FILL	(0-2') Dry, brown, coarse-fine SAND, little medium-fine angular-sub-angular gravel, little silt, trace organics - roots. (SW)
				0.0				
				0.0			FILL	(2-2.5') Dry, light gray-white, coarse-fine sub-angular GRAVEL, some coarse-fine sand. (GW)
							FILL	(2.5-5') Moist, brown-gray, coarse-fine SAND, some silt, little medium-fine angular gravel. (SW)
				0.0				
				0.0				
			71.9					
GP	S-2	60/41	5	0.0	0.000		FILL	(5-5.5') Same as 2.5-5' BGS.
							FILL	(5.5-6') Moist, brown-gray, medium-fine SAND and SILT, little coarse-fine angular gravel. (SM)
				0.0			ML	(6-10') Moist, brown-gray, SILT and coarse-fine SAND, some coarse-fine angular gravel, little clay. Driller noted tighter drilling conditions at 9' BGS. (ML)
				0.0				
				0.0				
			66.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

BOREHOLE LOG

SB-LF2-59

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.9					
GP	S-3	60/45	10	0.0	0.000		ML	(10-12.5') Same as 6-10' BGS, but wet.
				0.0				
				0.0			ML	(12.5-15') Dry-moist, gray SILT, little coarse-fine angular and sub-angular gravel, little medium-fine SAND, little silt. (ML)
				0.0				
				0.0				
			61.9					
			15					End of Exploration at 15' BGS.
			56.9					
			20					
			51.9					
			25					

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BOREHOLE LOG

SB-LF2-59A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Borehole Coordinates:
N 392,333.96 E 900,710.70

Surface Elevation (ft.): 76.94
Total Depth (ft.): 6
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 76.9	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0					(0-5') No sample collected. See SB-LF2-59 boring log for lithologic descriptions.
			71.9					
GP	S-1	12/12	5	0.0	0.000		SM	(5-6') Dry, light brown, coarse-fine SAND and SILT, some coarse-fine sub-angular gravel, trace clay. (SM)
			66.9					End of Exploration at 6' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 5-6' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-59, 1' north of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/26/15

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BOREHOLE LOG

SB-LF2-60

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.8
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 10
Drillers: J. Emma, J. Haines
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 7/16/2015 **End:** 7/16/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,340.94 E 900,755.65

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.8					
GP	S-1	60/41	0	0.0	0.000		FILL	(0-0.5') Dry, light gray and dark brown, coarse-medium angular-sub-angular GRAVEL, some coarse-fine sand, little silt, trace organics - roots. (GP)
				0.0			FILL	(0.5-2') Dry-moist, brown, coarse-fine SAND, some coarse-fine sub-angular gravel, trace silt. (SW)
				0.0			FILL	(2-3') Dry, gray, coarse-fine SAND and coarse-fine angular GRAVEL, little silt. (SW)
				0.0			SW	(3-5') Dry-moist, light-brown-light gray, coarse-fine SAND, some coarse-fine angular and sub-angular gravel, some silt. (SW)
			72.8	0.0				
GP	S-2	60/60	5	0.0	0.000		SW	(5-5.5') Same as 3-5' BGS.
				0.0			SM	(5.5-9') Dry-moist, gray-brown, coarse-fine SAND and SILT, some coarse-fine angular gravel. (SM)
				0.0				
				0.0				
				0.0			ML	(9-10') Moist, gray, SILT, some coarse-fine sand, little coarse-fine angular gravel, little clay. Driller noted tighter drilling conditions at 9' BGS. (ML)
			67.8					
			10					End of Exploration at 10' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 10' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-60A

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Borehole Coordinates:
N 392,340.94 E 900,755.65

Surface Elevation (ft.): 77.8
Total Depth (ft.): 2
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.8					
GP	S-1	24/17	0	0.0 0.0	0.000		FILL SW	(0-0.5') Dry, brown, coarse-fine SAND and coarse-fine angular GRAVEL, some silt, trace organics - roots. (SW) (0.5-2') Dry, brown-light brown, coarse-fine SAND, little medium-fine angular gravel, little silt. (SW)
			72.8 5					End of Exploration at 2' BGS.
			67.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled discretely from 0-2' BGS for VOCs, chloropicrin, PCBs, and cadmium. Offset of SB-LF2-60, 1' northeast of original boring location. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

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BOREHOLE LOG

SB-LF2-61

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.4
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: Justin Emma, Mike Rash
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Kocis, M. Luick

N 392,354.36 E 900,792.53

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.4					
GP	S-1	60/42	0	0.0	0.000		FILL	(0'-3.3') Moist, dark yellowish brown, medium to fine SAND, little coarse to fine angular to rounded gravel, trace organics (SW)
			73.4				FILL	(3.3'-7') Moist, yellowish brown-light gray, SILT, little medium to fine sand, trace coarse gravel (ML)
GP	S-2	60/54	5	0.0	0.000		ML	(7'-10') Moist, dark yellowish brown, SILT, some clay, little coarse to fine rounded to angular gravel (TILL)
			68.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Probe resistance starting 10-15 ft, drillers note 12ft + very tight

Reviewed by: P. Troy **Date:** 10/28/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-61

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.4					
GP	S-3	60/54	10	0.0	0.000		ML	(10'-15') Moist, dark yellowish brown, SILT, some clay, little coarse to fine rounded to angular gravel (TILL)
			63.4					
			15					End of exploration at 15 ft bgs.
			58.4					
			20					
			53.4					
			25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-62

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.7
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: Justin Emma, Mike Rash
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Kocis, M. Luick

N 392,321.90 E 900,714.23

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.7					
GP	S-1	60/54	0 – 70.7	0.0	0.000		FILL	(0'-1.5') Moist, dark brown-orangish brown, coarse to fine SAND, little silt, trace rounded to angular gravel (SW)
							FILL	(1.5'-7') Moist, light yellowish brown-light gray, SILT and medium to fine SAND, little medium to fine rounded to angular gravel (ML/SW) Observed black coarse material with metallic sheen at 4 ft bgs
GP	S-2	60/54	5 – 65.7	0.0	0.000		SC-ML	(7'-10') Moist to wet, yellowish brown, very fine SAND, some clay, little silt, little coarse to fine rounded to angular gravel

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller notes increase in tightness at 7 ft bgs and 10 ft bgs.

Reviewed by: P. Troy **Date:** 11/25/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

BOREHOLE LOG

SB-LF2-62

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.7					
GP	S-3	60/48	10	0.0	0.000		SC-ML	(10'-15') Moist to wet, yellowish brown, very fine SAND, some clay, little silt, little coarse to fine rounded to angular gravel Observed an increase in silt content with depth
			60.7 15					End of exploration at 15 ft bgs.
			55.7 20					
			50.7 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/30/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-63

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 73.07
Drilling Method/Rig: DPT/Geoprobe 6620DT
Total Depth (ft.): 15
Drillers: J. Emma, M. Rash
Abandonment Method: Backfilled with bentonite chips
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Field Screening Instrument: PID, Jerome MVA
Borehole Coordinates:
Logged By: P. Donohue

N 392,302.23 E 900,629.38

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			73.1					
GP	S-1	60/37	0	0.0	0.000		FILL	(0-0.5') Moist, gray, SILT and medium-fine SAND, little medium-fine angular gravel. (ML)
				0.0			FILL	(0.5-1.5') Dry, brown, medium-fine SAND, some silt, little medium-fine angular gravel, little clay. (SP)
				0.0			FILL	(1.5-5') Dry-moist, tan-brown, SILT, some coarse-fine sand, some coarse-fine sub-angular and angular gravel, trace clay (ML)
				0.0				
				0.0				
				0.0				
			68.1					
GP	S-2	60/35	5	0.0	0.000		FILL	(5-6') Dry, gray-brown, coarse-fine SAND, some coarse-fine angular gravel, little silt. (SW)
				0.0			SW	(6-8.5') Dry, light brown, coarse-fine SAND, some silt, some coarse-fine sub-angular gravel. (SW)
				0.0				
				0.0			ML	(8.5-10') Moist, brown, SILT, some coarse-fine sand, little clay, little coarse-fine sub-angular gravel. (ML)
				0.0				
			63.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 15' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

BOREHOLE LOG

SB-LF2-63

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: 5000-110260

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			63.1					
			10				ML	(10-11.5') Moist, brown, SILT, some coarse-fine sand, little clay, little coarse-fine sub-angular gravel. (ML)
				0.0				
				0.0			ML	(11.5-15') Moist, gray, SILT, some clay, some coarse-fine angular gravel, some coarse-fine sand. Driller noted tighter drilling conditions at 12' BGS. (ML)
GP	S-3	60/57		0.0	0.000			
				0.0				
				0.0				
			58.1					
			15					End of Exploration at 15' BGS.
			53.1					
			20					
			48.1					
			25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-64

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 76.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: Justin Emma, Mike Rash
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: J. Kocis, M. Luick

N 392,327.04 E 900,632.43

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			76.1					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-1.5') Dry, light brown, medium to fine SAND, little rounded to angular gravel, trace organics (SP)
							FILL	(1.5'-5') Moist, dark orange-brown, coarse to fine SAND, little medium to fine rounded gravel, trace silt and clay (SW)
			71.1					
GP	S-2	60/48	5	0.0	0.000		FILL	(5'-6') Wet, gray, medium SAND, little fine rounded gravel (SW)
							ML	(6'-10') Moist-wet, brownish gray-olive gray, SILT, trace fine sand, trace dark brown organic material, wood debris
			66.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: P. Troy **Date:** 10/28/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-64

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.1					
GP	S-3	60/48	10	0.0	0.000		SC	(10'-15') Moist-wet, yellowish brown, medium to fine SAND, some clay, little silt, little coarse to fine rounded to angular gravel
			61.1					
			15					End of exploration at 15 ft bgs.
			56.1					
			20					
			51.1					
			25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-65

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: 5000-110260

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: DPT/Geoprobe 6620DT
Drillers: J. Emma, M. Rash
Drilling Date: Start: 8/10/2015 **End:** 8/10/2015
Borehole Coordinates:
N 392,360.15 E 900,623.27

Surface Elevation (ft.): 66.82
Total Depth (ft.): 6
Abandonment Method: Backfilled with bentonite chips
Field Screening Instrument: PID, Jerome MVA
Logged By: P. Donohue

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.8					
GP	S-1	24/12	0	0.0	0.000		FILL	(0-1') Dry, dark brown, SILT and medium-fine SAND, little coarse-fine rounded and sub-rounded gravel, trace organics - roots. (ML)
				0.0			SM	(1-2') Moist, gray-tan, medium-fine SAND and SILT, some coarse-fine angular gravel. (SM)
GP	S-2	24/18		0.0	0.000		SM	(2-4') Same as 1-2' BGS.
				0.0				
GP	S-3	24/22	61.8 5	0.0	0.000		ML	(4-6') Wet, tan-gray, SILT and coarse-fine SAND, some coarse-fine angular gravel, little clay. (ML)
				0.0				
			56.8					End of Exploration at 6' BGS.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Sampled continuously for Hg (XRF/DMA) to 6' BGS. The Jerome MVA readings indicated represent the highest recorded values in that range.

Reviewed by: E. Ashley **Date:** 10/23/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME LF2.GPJ CDM_MA.GDT 10/19/15

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BOREHOLE LOG

SB-LF2-66

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/27/2015 **End:** 08/27/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: P. Troy, L. Pasquine

N 392,342.26 E 900,778.45

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.1					
GP	S-1	36/28.8	0	0.0	0.000		FILL	(0'-3') Dry, brown, SILT, some fine subangular gravel, trace organics, trace fine sand (ML)
			73.1 / 5					End of exploration at 3 ft bgs.
			68.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: L. Pasquine **Date:** 10/26/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

SB-LF2-67

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 71.9
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 10
Drillers: John Chase, Jay Grasser
Abandonment Method: Bentonite Chips
Drilling Date: Start: 09/10/2015 **End:** 09/10/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: P. Troy, L. Pasquine

N 392,276.50 E 900,579.71

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			71.9					
GP	S-1	60/48	0	8.3	0.000		FILL	(0'-3.4') Moist, brown, coarse to fine SAND, some coarse to fine rounded to subangular gravel, little silt (SW)
							ML	(3.4'-5') Moist, light brown, SILT, trace medium to fine angular gravel, trace fine sand, trace clay (TILL)
			66.9					
GP	S-2	60/43	5	0.0	0.000		ML	(5'-10') Moist, light brown, SILT, trace medium to fine angular gravel, trace fine sand, trace clay (TILL)
			61.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-67

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			61.9 / 10					End of exploration at 10 ft bgs.
			56.9 / 15					
			51.9 / 20					
			46.9 / 25					

CDM Smith | Geosyntec consultants

BOREHOLE LOG

SB-LF2-68

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 77.0
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 10
Drillers: John Chase, Jay Grasser
Abandonment Method: Bentonite Chips
Drilling Date: Start: 09/10/2015 **End:** 09/10/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, L. Pasquine

N 392,290.05 E 900,665.62

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			77.0					
GP	S-1	60/36	0	0.0	0.000		FILL	(0'-3') Moist, brown, coarse to fine SAND, some coarse to fine angular gravel, little silt (SW)
							ML	(3'-5') Moist, light brown, SILT, trace coarse to fine angular gravel, trace fine sand, trace clay
			72.0					
GP	S-2	60/60	5	0.0	0.000		ML	(3'-5') Moist, light brown, SILT, trace coarse to fine angular gravel, trace fine sand, trace clay
			67.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-68

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.0					
			10					End of exploration at 10 ft bgs.
			62.0 / 15					
			57.0 / 20					
			52.0 / 25					

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BOREHOLE LOG

SB-LF2-69

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 75.8
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 15
Drillers: John Chase, Jay Grasser
Abandonment Method: Bentonite Chips
Drilling Date: Start: 09/10/2015 **End:** 09/10/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, L. Pasquine

N 392,328.54 E 900,562.20

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			75.8					
GP	S-1	60/36	0 70.8	8.3	0.000		FILL	(0'-5') Moist, brown, coarse to fine SAND, some round to subangular gravel, little silt (SW)
GP	S-2	60/30	5 65.8	0.0	0.000		FILL	(5'-10') Moist, brown, coarse to fine SAND, some round to subangular gravel, little silt (SW)

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-69

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.8					
GP	S-3	60/28	10	0.0	0.000		CL	(10'-13') Moist, light gray, CLAY, little silt, trace fine sand
							ML	(13'-15') Moist, gray, SILT, little clay
			60.8					
			15					End of exploration at 15 ft bgs.
			55.8 / 20					
			50.8 / 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

SB-LF2-70

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 78.1
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 10
Drillers: John Chase, Jay Grasser
Abandonment Method: Bentonite Chips
Drilling Date: Start: 09/10/2015 **End:** 09/10/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, L. Pasquine

N 392,343.05 E 900,779.53

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			78.1					
GP	S-1	60/42	0	0.0	0.000		FILL	(0'-2.2') Moist, brown, coarse to fine SAND, some medium to fine rounded gravel, little silt (SW)
							ML	(2.2'-5') Moist, light brown, SILT, trace medium to fine angular gravel, trace fine sand, trace clay
			73.1					
GP	S-2	60/44	5	0.0	0.000		ML	(5'-10') Moist, light brown, SILT, trace medium to fine angular gravel, trace fine sand, trace clay
			68.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Driller noted increased pressure from ~2 ft bgs and below

Reviewed by: G. Barr **Date:** 11/02/2015

BOREHOLE LOG

SB-LF2-70

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. / Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			68.1 / 10					End of exploration at 10 ft bgs.
			63.1 / 15					
			58.1 / 20					
			53.1 / 25					

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BOREHOLE LOG

SB-LF2-71

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 71.3
Drilling Method/Rig: Direct Push/Geoprobe 7822DT
Total Depth (ft.): 14
Drillers: John Chase, Jay Grasser
Abandonment Method: Bentonite Chips
Drilling Date: Start: 09/17/2015 **End:** 09/17/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: L. Pasquine, E. Bonilla

N 392,252.74 E 900,545.08

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 71.3	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
GP	0.0	60/31	0		0.000		FILL	(0'-4.5') Moist, brown, SILT, some medium to fine subangular gravel, little medium to fine sand, trace organics (ML)
			66.3				FILL	(4.5'-5') Dry to moist, brown, SILT, trace clay (ML)
GP	0.0	60/54	5		0.000		ML	(5'-10') Dry to moist, brown, SILT, some medium to fine angular gravel
			61.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: L. Pasquine **Date:** 10/26/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

BOREHOLE LOG

SB-LF2-71

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			61.3					
GP	0.0	48/48	10		0.000		ML	(10'-14') Dry to moist, brown, SILT, some medium to fine angular gravel, trace fine sand
			56.3 / 15					End of exploration - Geoprobe encountered refusal at 14 ft bgs.
			51.3 / 20					
			46.3 / 25					

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-A1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 67.4
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 4
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/03/2015 **End:** 08/03/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann

N 393,577.71 E 901,063.21

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.4					
			0				OL	(0'-0.3') Moist, dark brown, organic SILT, trace fine sand, trace organics
HP	S-1	24/23		0.0	0.000		ML	(0.3'-2') Moist, light gray-brown, SILT, some fine sand
HP	S-2	24/17		0.0	0.000		ML	(2'-3') Moist, light gray-brown, SILT, some fine sand
							ML	(3'-4') Wet, light gray-brown, SILT, some fine sand
								End of exploration at 4 ft bgs.
			62.4 / 5					
			57.4					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-A2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 67.7
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 4
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/03/2015 **End:** 08/03/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann

N 392,578.83 E 901,060.34

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.7					
			0				OL	(0'-0.7') Moist, dark brown, organic SILT, trace fine sand, trace organics
HP	S-1	24/20		0.0	0.000		ML	(0.7'-2') Moist, light gray-brown, SILT, some fine sand
HP	S-2	24/20		0.0	0.000		ML	(2'-3.3') Moist, light gray-brown, SILT, some fine sand
							ML	(3.3'-4') Wet, light gray-brown, SILT, some fine sand
			62.7 / 5					End of exploration at 4 ft bgs.
			57.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-A3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 67.7
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,576.30 E 901,064.08

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.7					
			0				OL	(0'-0.8') Moist, dark brown, organic SILT, little medium to fine gravel, trace medium to find sand, trace organics
HP	S-1	24/19		0.0	0.009		ML	(0.8'-2') Moist, light gray-brown, SILT, some fine sand
HP	S-2	12/11		0.0	0.000		ML	(2'-3') Moist, light gray-brown, SILT, some fine sand
			62.7 / 5					
			57.7					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-B1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.0
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,533.95 E 900,966.65

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.0					
			0				OL	(0'-0.5') Moist, dark brown, organic SILT, trace medium to fine sand, trace organics
							ML	(0.5'-0.8') Moist, light gray-brown, SILT, some fine sand
HP	S-1	24/23		0.0	0.000		ML	(0.8'-1') Moist, dark brown, organic SILT, little organics, trace medium to fine sand
							ML	(1'-2') Moist, light gray-brown, SILT, some fine sand
							ML	(2'-2.4') Moist, light gray-brown, SILT, some fine sand
HP	S-2	12/12		0.0	0.000		ML	(2.4'-3') Wet, light gray-brown SILT, some fine sand
								End of exploration at 3 ft bgs.
			60.0 / 5					
			55.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-B2

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Direct Push/Hand Probe
Drillers: John Chase, Bobby Orsini
Drilling Date: Start: 08/05/2015 **End:** 08/05/2015
Borehole Coordinates:
N 392,541.41 E 900,967.31

Surface Elevation (ft.): 66.9
Total Depth (ft.): 3
Abandonment Method: Bentonite Chips
Field Screening Instrument: PID and Jerome meters
Logged By: G. Barr, J. Eidmann, Z. Tanguay

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.9	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
HP	S-1	24/22	0	0.0	0.000		OL	(0'-1') Dry-moist, dark brown, SILT, trace organics
							ML	(1'-1.5') Dry-moist, gray, SILT
							ML	(1.5'-2') Moist, light gray-brown, SILT and CLAY
HP	S-2	12/10		0.0	0.000		SP	(2'-3') Moist, light gray, fine SAND and SILT
			61.9 / 5					End of exploration at 3 ft bgs.
			56.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-B3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/05/2015 **End:** 08/05/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,529.49 E 900,969.68

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.9	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				OL	(0'-0.5') Dry-moist, dark brown, SILT, trace organics
HP	S-1	24/23		0.0	0.000		ML	(0.5'-1.5')Moist, light gray, SILT, some fine sand, trace organics
							ML/CL	(1.5'-3') Moist, light gray, SILT, some clay
HP	S-2	12/12		0.0	0.000			
			61.9 / 5					End of exploration at 3 ft bgs.
			56.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-B4

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 67.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 4
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/25/2015 **End:** 08/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: P. Troy, L. Pasquine

N 392,568.85 E 900,960.57

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			67.9					
HP	S-1	24/17	0	0.0	0.000		OL	(0'-1.75') Moist, brown, SILT, some organics
HP	S-2	24/19		0.0	0.000		SP	(1.75'-4') Moist, gray, fine SAND, trace silt
			62.9 / 5					End of exploration at 4 ft bgs.
			57.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: P. Troy **Date:** 10/28/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-C1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.8
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,518.36 E 900,871.09

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.8					
HP	S-1	24/18	0	0.0	0.000		OL	(0'-1.1') Moist, dark brown, organic SILT, trace medium to fine sand, trace organics
							ML	(1.1'-2') Moist, light brown-gray, SILT, trace clay, trace fine sand
HP	S-2	12/10		0.0	0.000		ML	(2'-3') Moist, light brown-gray, SILT, trace clay, trace fine sand
								End of exploration at 3 ft bgs.
			60.8 5					
			55.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-C2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.5
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/05/2015 **End:** 08/05/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,527.45 E 900,870.50

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.5					
			0				OL	(0'-0.4') Moist, dark brown, SILT, trace organics
HP	S-1	24/17		0.0	0.000		ML-CL	(0.4'1.5') Moist, light gray, SILT, some clay
							ML	(1.5'-3') Moist, light gray, SILT, some fine sand, trace clay
HP	S-2	12/7		0.0	0.000			
								End of exploration at 3 ft bgs.
			61.5 / 5					
			56.5					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-C3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.6
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/05/2015 **End:** 08/05/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,511.29 E 900,870.29

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.6					
			0				SP	(0'-0.6') Moist, gray, medium to fine SAND, trace organics
							OL	(0.6'-0.9') Moist, dark brown, SILT, trace organics
HP	S-1	24/17		0.0	0.000		ML-OL	(0.9'-1.9') Moist, gray, SILT, some clay
							ML-SP	(1.9'-3') Moist, gray, SILT, some fine sand, trace clay
HP	S-2	12/4		0.0	0.000			
								End of exploration at 3 ft bgs.
			61.6 / 5					
			56.6					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-D1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.1
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,490.67 E 900,779.63

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			66.1					
HP	S-1	24/13	0	0.0	0.000		ML	(0'-2') Moist, gray, SILT, some clay, little medium to fine gravel, trace organics (silt + wood debris), trace medium to fine sand
HP	S-2	12/8		0.0	0.000		ML	(2'-3') Moist, gray, SILT, some coarse to fine sand, trace medium to fine gravel
			61.1 / 5					End of exploration at 3 ft bgs.
			56.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-D2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.1
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,494.17 E 900,778.83

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.1	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				OL	(0'-0.5') Moist, dark brown, SILT, trace organics
HP	S-1	24/12		0.0	0.000		ML	(0.5'-1') Moist, gray, SILT, some coarse to medium sand, trace fine gravel, trace clay
							SM	(1'-3') Moist, light brown, fine SAND, some silt, little fine gravel
HP	S-2	12/8.4		0.0	0.000			
								End of exploration at 3 ft bgs.
			61.1 / 5					
			56.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-D3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.3
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J. Eidmann, Z. Tanguay

N 392,488.22 E 900,780.84

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.3	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				CL	(0'-0.6') Moist, gray, CLAY, some silt, trace fine gravel, trace organics
HP	S-1	24/14		0.0	0.000		SP	(0.6'-2') Moist, gray, fine SAND and SILT, trace organics, trace clay
HP	S-2	12/6		0.0	0.000		GP	(2'-3') Wet, medium to fine GRAVEL, little coarse to fine sand, little silt
			61.3 / 5					End of exploration at 3 ft bgs.
			56.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-E1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.5
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,428.99 E 900,674.09

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.5					
			0				OL	(0'-0.4') Moist, dark brown, organic SILT, trace medium to fine gravel
HP	S-1	24/18		0.0	0.000		ML	(0.4'-2') Moist, light gray-brown, SILT and fine SAND
HP	S-2	12/2		0.0	0.000		ML	(2'-3') Moist, light gray-brown, SILT and fine SAND
			60.5 / 5					End of exploration at 3 ft bgs.
			55.5					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-E2

Client: Mallinckrodt US LLC
Project Location: Orrington, Maine
Project Name: Orrington Remediation Site
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Drilling Method/Rig: Direct Push/Hand Probe
Drillers: John Chase, Bobby Orsini
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Borehole Coordinates:
N 392,433.56 E 900,669.96

Surface Elevation (ft.): 66.0
Total Depth (ft.): 3
Abandonment Method: Bentonite Chips
Field Screening Instrument: PID and Jerome meters
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.0	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
HP	S-1	24/18	0	0.0	0.000		OL	(0'-0.4') Wet, dark brown, SILT, trace organics
							ML	(0.4'-1.2') Moist, gray, SILT, trace fine sand, trace clay
							GM	(1.2'-2') Moist, medium to fine GRAVEL, little silt, little coarse to fine sand
HP	S-2	12/12		0.0	0.000		ML	(2'-2.2') Moist, gray, SILT, trace fine sand, trace clay, trace organics
							GM	(2.2'-2.5') Moist, brown-gray, medium to fine GRAVEL, little silt, trace fine sand, trace organics
							ML	(2.5'-3') Moist, gray, SILT, some fine sand
								End of exploration at 3 ft bgs.
			61.0 5					
			56.0					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-E3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,425.50 E 900,673.05

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.9					
			0				ML-OL	(0'-0.8') Moist, dark brown, SILT, trace clay, trace organics
HP	S-1	24/16		0.0	0.000		ML-SP	(0.8'-2') Moist, gray, SILT, some fine sand, trace organics
HP	S-2	12/4		0.0	0.000		GM	(2'-3') Wet, medium to fine GRAVEL, little silt
								End of exploration at 3 ft bgs.
			60.9 / 5					
			55.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-F1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.3
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,386.65 E 900,614.94

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.3					
			0				OL	(0'-0.3') Moist, dark brown, SILT, little organics
							ML	(0.3'-0.9') Moist, dark gray, SILT, some clay
HP	S-1	24/16		0.0	0.000		SW	(0.9'-1') Moist, brown, coarse to fine SAND, some medium to fine gravel
							ML	(1'-2') Moist, dark gray, SILT, some clay, trace fine sand
HP	S-2	12/11		0.0	0.000		ML	(2'-3') Moist, gray, SILT, little clay, trace fine sand
								End of exploration at 3 ft bgs.
			60.3 / 5					
			55.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-F2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.5
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,391.09 E 900,609.68

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.5					
			0				OL	(0'-0.7') Moist, dark brown, SILT, trace organics
HP	S-1	24/17		0.0	0.000		ML-GM	(0.7'-2') Moist, gray, SILT, some medium to fine gravel, trace fine sand
HP	S-2	12/4		0.0	0.000		GM	(2'-3') Wet, gray-brown, medium to fine GRAVEL, some silt, little medium to fine sand
			60.5 / 5					End of exploration at 3 ft bgs.
			55.5					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-F3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 66.1
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,378.40 E 900,621.24

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 66.1	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				OL	(0'-0.7') Moist, dark brown, SILT, trace organics, trace medium to fine sand
HP	S-1	24/14		0.0	0.000		CL	(0.7'-1.3') Moist, gray, CLAY, little silt
							ML	(1.3'-2') Moist, gray-brown, SILT, some fine sand
HP	S-2	12/7		0.0	0.000		GM	(2'-3') Wet, gray, medium to fine GRAVEL, some silt, little coarse to medium sand, trace clay
			61.1/5					End of exploration at 3 ft bgs.
			56.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-G1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.1
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,362.06 E 900,582.96

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.1					
			0				OL	(0'-0.3') Moist, dark brown, organic SILT
HP	S-1	24/18		0.0	0.000		ML-CL	(0.3'-2') Moist, gray, SILT and CLAY
HP	S-2	12/8		0.0	0.000		ML-CL	(2'-3') Moist, gray, SILT and CLAY, trace fine sand
								End of exploration at 3 ft bgs.
			60.1 / 5					
			55.1					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-G2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.8
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,390.04 E 900,574.27

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.8					
HP	S-1	24/18	0	0.0	0.000		OL	(0'-1.4') Moist, dark brown, SILT, some organics
							ML	(1.4'-2.6') Moist, light gray-brown, SILT, little clay, trace fine sand
HP	S-2	12/7		0.0	0.000		ML-SP	(2.6'-3') Moist, light gray-brown, SILT, some fine sand
								End of exploration at 3 ft bgs.
			60.8 / 5					
			55.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-G3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.2
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,354.52 E 900,586.85

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			65.2					
HP	S-1	24/17	0	0.0	0.000		OL	(0'-1.8') Moist, dark brown, SILT, little organics, trace clay
HP	S-2	12/12		0.0	0.000		ML-CL	(1.8'-3') Moist, gray, SILT and CLAY
			60.2 / 5					End of exploration at 3 ft bgs.
			55.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-H1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 64.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, J.Eidmann, Z. Tanguay,

N 392,280.67 E 900,501.23

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			64.9					
			0				OL	(0'-0.6') Moist, dark brown, SILT, trace organics
HP	S-1	24/14		0.0	0.000		ML	(0.6'-3') Moist, light brown-gray, SILT, trace fine sand, trace clay, trace medium to fine gravel
HP	S-2	12/7		0.0	0.000			
								End of exploration at 3 ft bgs.
			59.9/5					
			54.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-H2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 65.2
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, Z. Tanguay

N 392,284.49 E 900,500.04

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 65.2	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0				ML	(0'-0.6') Moist, dark brown, SILT, trace organics, trace fine sand
HP	S-1	24/18		0.0	0.000		CL	(0.6'-1.1') Moist, gray, CLAY
							ML	(1.1'-2.7') Moist, light gray-brown, SILT, some clay, trace fine sand
HP	S-2	12/5		0.0	0.000			
							GP	(2.7'-3') Moist, gray, medium to fine GRAVEL, little coarse to fine sand
								End of exploration at 3 ft bgs.
			60.2 / 5					
			55.2					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

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BOREHOLE LOG

TS-SS-H3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 64.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, Z. Tanguay

N 392,277.29 E 900,500.36

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			64.9					
HP	S-1	24/16	0	0.0	0.000		ML	(0'-0.4') Dry-moist, dark brown, SILT, little organics, trace medium to fine sand
							CL	(0.4'-1.5') Moist, dark gray, CLAY, some silt, trace fine gravel
							ML	(1.5'-3') Moist, light brown-gray, SILT, little clay, little fine gravel, trace coarse to fine sand
HP	S-2	12/7		0.0	0.000			
								End of exploration at 3 ft bgs.
			59.9 / 5					
			54.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 11/02/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-I1

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 63.8
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/04/2015 **End:** 08/04/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, Z. Tanguay, J.Eidmann

N 392,249.44 E 900,392.81

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			63.8					
			0				ML	(0'-0.8') Dry-moist, dark brown, SILT, little organics, trace fine gravel, trace coarse sand
HA	S-1	24/17		0.0	0.000		ML-SW	(0.8'-3') Moist, brown, SILT, some coarse-fine sand, trace organics
HA	S-2	12/5		0.0	0.000			
								End of exploration at 3 ft bgs.
			58.8 / 5					
			53.8					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
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HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 10/01/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-I1A

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 63.8
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 6
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/06/2015 **End:** 08/06/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: G. Barr, Z. Tanguay

N 392,251.07 E 900,390.32

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.) 63.8	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			0					See TS-SS-I1
HA	S-1	12/11		0.0	0.000		SM	(3'-3.8') Moist, light brown, coarse-fine SAND, some silt
							SW	(3.8'-4.5') Wet, light brown, coarse-fine SAND, some medium-fine gravel, trace silt
HA	S-2	24/20	58.8 / 5	0.0	0.000		SP	(4.5'-6') Wet, gray, medium-fine SAND
			53.8					End of exploration at 6 ft bgs.

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
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GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: G. Barr **Date:** 10/01/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-I2

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 64.3
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/25/2015 **End:** 08/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: P. Troy, L. Pasquine

N 392,254.63 E 900,386.72

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			64.3					
HA	S-1	12/7	0	0.0	0.000		ML	(0'-1') Moist, dark brown, SILT, some medium-fine rounded gravel, trace medium-fine sand, trace organics
HA	S-2	24/14		0.0	0.000		ML	(1'-3') Moist, gray, SILT, trace fine angular gravel, trace organics
			59.3 / 5					End of exploration at 3 ft bgs.
			54.3					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
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NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: P. Troy **Date:** 10/05/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

CDM Smith | Geosyntec consultants

BOREHOLE LOG

TS-SS-I3

Client: Mallinckrodt US LLC
Project Name: Orrington Remediation Site
Project Location: Orrington, Maine
Project Number: BR0292

Drilling Contractor: Geosearch, Inc.
Surface Elevation (ft.): 64.9
Drilling Method/Rig: Direct Push/Hand Probe
Total Depth (ft.): 3
Drillers: John Chase, Bobby Orsini
Abandonment Method: Bentonite Chips
Drilling Date: Start: 08/25/2015 **End:** 08/25/2015
Field Screening Instrument: PID and Jerome meters
Borehole Coordinates:
Logged By: P. Troy, L. Pasquine

N 392,234.39 E 900,408.33

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	PID Reading (ppmv)	Jerome Hg Reading (mg/m3)	Graphic Log	Stratum Designation	Material Description
			64.9					
HA	S-1	12/8	0	0.0	0.000		SM	(0'-1.25') Moist, dark brown, medium-fine SAND, some silt, trace fine angular gravel, trace organics
HA	S-2	24/19		0.0	0.000		SW	(1.25'-3') Moist, gray, fine SAND, little fine angular gravel, trace silt
			59.9 / 5					End of exploration at 3 ft bgs.
			54.9					

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
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SAMPLING TYPES:
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HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by: P. Troy **Date:** 10/05/2015

GEOSYNTEC BL_NO BLOWS PID/JEROME ORRINGTON TEMPLATE.GPJ CDM_MA.GDT 11/24/15

APPENDIX C

Analytical Laboratory Reports

(Provided on Flash Drive)

DRAFT

APPENDIX D
Data Usability

DRAFT

DATA USABILITY ASSESSMENT REPORT

Orrington Remediation Site
Landfill 2 Area
Orrington, Maine
January 2, 2016

Prepared by:

CDM Smith
25 Industrial Ave.
Chelmsford, MA 01824

Geosyntec Consultants, Inc.
289 Great Road, Suite 202
Acton, MA 01720

Mallinckrodt US LLC

January 2016

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Section 1.
Executive Summary

The laboratory analytical data assessed for this Data Usability Assessment (DUA) were collected and analyzed between November 04, 2015 and November 12, 2015 per the specifications of the Revised Landfills 1 & 2 Phase II Pre-Design Work Plan (CDM, July 2015). Data were assessed during this process and were qualified based on the laboratory information provided and per the guidance referenced by the project Quality Assurance Project Plan (QAPP), the USEPA New England Environmental Data Review Supplement for Region l, Data Review Elements and Superfund Specific Guidance (USEPA, April 2013) and the USEPA National Functional Guidance for Organic and Inorganic Data Review (2014). The qualified data should be used within the limitations of the qualifications. This DUA provides a summary indicating that the analytical data collected and analyzed for the Orrington Remediation Site, Landfill 2 (LF2) Area contained in the sample delivery groups/work orders (SDGs/WOs) listed below are adequate for their intended purpose, based on a review of associated quality control (QC), non-conformances provided with the data (as applicable) and information provided by the data quality assessment (DQA). Due to QC exceedances reported by Alpha Analytical (Alpha) some results were U qualified as not detected at the reporting limit (RL) with a high bias, due to blank contamination. No overall directional bias was indicated by the QC samples associated with the analytical results from Alpha and none of the data were rejected. Qualifications of the data are listed and discussed in the sections below. Sample specific result concentrations and qualifications for each analysis are contained in the project database.

1.1 Introduction

The data quality objectives (DQOs) described in the project specific QAPP and the specifications for Tier 1 Plus validation per the USEPA New England Environmental Data Review Supplement for Region l, Data Review Elements and Superfund Specific Guidance (USEPA, April 2013) were used as the basis to assess the analytical performance of the laboratories with regard to the data associated with laboratory QC samples. Analytical performance objectives are used to standardize the minimum quality assurance/quality control (QA/QC) and reporting documentation expected for analytical laboratory data used by the project team. The specifications of the Work Plan and adherence to the QAPP result in samples that have been collected properly and are representative of the site location to the greatest extent possible. Laboratory data that conform to analytical performance objectives and the DQOs specified by the project specific QAPP provide confidence that data are of known and documented quality. Field QC samples were also assessed and qualifications applied to the associated sample data where project specific data quality indicator acceptance criteria were not met.

A DQA is an assessment of the laboratory QC data, the laboratory report, and laboratory narrative to identify and summarize QC nonconformances and associated field QC samples. Alpha, Westborough, Massachusetts, provided analytical reports and associated electronic data deliverables (EDDs) for the fixed base laboratory analyses of the data for the project. A DQA was performed on the following laboratory reports listed by group number.

Table 1a: DQA Listing by Alpha Laboratory Group Number

LF2 Alpha SDGs
L1528780

Table 1b: DQA Listing by DMA-80 Laboratory Group Number

LF2 DMA-80 Laboratory Group Number
None

Alpha analyzed the samples for the following analytical tests:

- Metals by EPA Method 6010C
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3540C/8082A
- Volatile Organic Compounds (VOCs) by EPA Method 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Total Solids by SM 2540G

The following sample matrices were analyzed over the course of the project:

- Soil
- Aqueous field QC samples

The DUA is an evaluation to determine if the analytical data (that may include nonconformances) are of sufficient quality for the intended purpose. The DUA uses the results of the DQA and evaluates the quality of the analytical data in relation to the project-specific DQOs and the intended use of the data. One of the primary purposes of the DUA is to determine if any bias that might be present in the analytical results, as identified during the DQA, affects the usability of the data for the intended purpose.

The DUA evaluates the precision, accuracy, and sensitivity of the analytical data compared to DQOs. Representativeness, completeness, and comparability should be evaluated as part of a DUA and should be considered when using analytical data.

A summary of the overall precision, accuracy, and sensitivity of the analytical data is discussed in the following text.

1.2 Data Usability Assessment

Precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS parameters) are used to describe the quality of analytical data in quantitative and qualitative terms using the information provided by the laboratory QC information. Each of the PARCCS parameters as they relate to the data is discussed below.

Validation qualifiers were applied to the data to reflect the limitations of the data usability based on precision and accuracy and are as follows:

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualifications of the data were applied per the cited guidance and are shown in the tables below and have also been added to the project EDD.

Tier 2 laboratory reports were provided by Alpha and were validated per the specifications of Tier 1 Plus data validation protocol.

1.2.1 Precision

Precision expresses the closeness of agreement, or degree of dispersion, between a series of measurements. Precision is a measure of the reproducibility of sample results. The goal is to maintain a level of analytical precision consistent with the DQOs.

Precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source or percent relative standard deviation (%RSD) from multiple sets of data. Measurement of precision is achieved by the analysis of laboratory duplicates, laboratory control sample/laboratory control sample duplicate pairs (LCS/LCSD), matrix spike/matrix spike duplicate pairs (MS/MSD) and field duplicate pairs. RPD only was considered during the DQA.

There were no instances where RPDs exceeded 50% for field duplicate pairs or 20% of the laboratory duplicates.

When it occurs, field duplicate imprecision is likely due to non-homogeneity of the sample matrix, but may reflect imprecision in the sampling method. When it occurs, laboratory duplicate imprecision is likely due to sample non-homogeneity as well, although it may also be attributed to imprecision introduced during the laboratory processing and analysis of the samples.

Field and laboratory duplicates were analyzed at the frequency specified by the QAPP and analytical method.

Precision Outside of Acceptance Criteria
Table 1.2.1a. Uncertainty Related to RPD Exceedance (Field Duplicates)

Sample ID	Analyte	Method	Validation Qualifier
None	None	None	None

Table 1.2.1b. Uncertainty Related to RPD Exceedance (Laboratory Duplicates)

Sample ID	Analyte	Method	Validation Qualifier
None	None	None	None

Table 1.2.1c. Uncertainty Related to LCS/LCSD Precision RPD Outside of Laboratory Acceptance Criteria

Sample ID	Analyte	Method	Validation Qualifier
None	None	None	None

It should be noted that data are not listed in Tables 1.2.1a, 1.2.1b, or 1.2.1c if the RPD exceedance did not result in qualification of the associated data. For instance, high RPDs associated with non-detect results were not qualified.

The frequency of field and laboratory duplicates met the project requirements and supports the DQOs.

1.2.2 Accuracy

Accuracy is used to describe the agreement between an observed value and an accepted reference or true value. The goal is to maintain a level of analytical accuracy consistent with the DQOs.

Accuracy is measured through the calculation of the percent recovery (%R) of the measured value against the expected value of a fortified MS/MSD pair, and/or LCS or LCS/LCSD pair. Accuracy is also measured through the analysis of blanks, method blanks, field blanks, equipment blanks, and trip blanks, which provide information regarding the accuracy of the data through the assessment of bias that may be introduced to the analytical result through sampling or sample preparation and analytical procedures. Additionally, accuracy is measured through surrogate and internal standard recoveries in the individual samples as applicable to the method.

The associated QC data did not indicate an evident high or low concentration trend. When a consistent high or low bias was not observed over multiple QC batches in a laboratory work order, only the sample associated with the MS/MSD result was qualified base on recovery and/or relative percent difference results. For validation purposes, the limits presented in the project specific QAPP (Tables 7-1 through 7-14, as applicable) and validation guidance regarding control limits were used to assess the data. Based on professional judgement, the recovery criteria used to assess mercury MS/MSD recoveries is 80-120%.

It should be noted that data are not listed in the tables if the recovery and/or bias did not result in qualification of the data. For instance, high recoveries of compounds in the MS/MSD samples or LCS/LCSD, or LCS associated with non-detect results for those compounds were not qualified.

The frequency of MS/MSD pairs, LCSs, and LCS/LCSD pairs met the requirements for the project and supports the DQOs and are in accordance with the project specific QAPP.

Instances where accuracy and bias exceeded acceptance criteria were limited to the following shown in Tables 1.2.2f. Samples were qualified accordingly in the associated EDD.

Accuracy and Bias Outside of Laboratory Criteria
Table 1.2.2a: Bias Related to MS/MSD Recovery

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

MS/MSD results where the concentration of the native sample was greater than four times the spike concentration were not considered for qualification per validation guidance.

Table 1.2.2b: Bias Related to LCS and/or LCDS Recovery

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

Table 1.2.2c: Bias Related to Surrogate Recovery

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

Table 1.2.2d: Bias Related to Internal Standard Recovery

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

Table 1.2.2e: Bias Related to Linear Range Exceedance

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

Table 1.2.2f: Blank Contamination Bias

Sample ID	Analyte	Method	Validation Qualifier	Bias
SB-LF2-67A-151104-2-3	Acetone	8260C	U	High
SB-LF2-67A-151104-2-3	Methylene chloride	8260C	U	High
SB-LF2-71A-151104-1-2	Acetone	8260C	U	High
SB-LF2-71A-151104-1-2	Methylene chloride	8260C	U	High

The frequency of field blanks, equipment blanks, trip blanks, and method blanks met the requirements for the project specific QAPP and supports the DQOs.

The high bias due to blank contamination listed in Table 1.2.f resulted in estimated values between the method detection limits (MDLs) and RLs to be elevated to the RLs. The results elevated to the RL are still usable for meeting project required RLs

Table 1.2.2g: Missed Holding Time Biases

Sample ID	Analyte	Method	Validation Qualifier	Bias
None	None	None	None	None

No missed holding times were assessed for the LF2 Area data in this DUA.

1.2.3 Representativeness and Comparability

Representativeness is a qualitative measurement that describes how well the analytical data characterizes an area of concern. Many factors can influence how representative the analytical results are for an area sampled. These factors include the selection of appropriate analytical procedures, the sampling plan, matrix heterogeneity and the procedures and protocols used to collect, preserve, and transport samples.

Comparability refers to the equivalency of sets of data. This goal is achieved through the use of standard or similar techniques to collect and analyze representative samples. The three elements evaluated for comparability are analytical methods, quality of the data, and the sampling design.

For the purposes of this DUA, it was noted that the data are considered representative and comparable based on the analytical methodologies employed by the laboratories. EPA SW846 and Standard Methods methodology for sample preparation and sample analysis were listed in the laboratory reports.

1.2.4 Completeness

Completeness is a quantitative measure that is used to evaluate how many valid analytical data were obtained in comparison to the amount that was planned. Completeness is expressed as a percentage of usable analytical data. Per the project specific QAPP the completeness percentage goal is 90%. The completeness percentage includes data that are J and UJ qualified as estimated and U qualified as elevated to the project quantitation limit but not R qualified as rejected.

The percent completeness for the LF2 Area for Alpha Laboratory is 100%.

1.2.5 Sensitivity

Sensitivity is related to the project RL and the MDLs. In this context, sensitivity refers to the capability of a method or instrument to detect a given analyte at a given concentration and reliably quantitate the analyte at that concentration.

In general, the MDLs and/or the RLs were less than the applicable standard and/or screening level listed in the QAPP.

1.3 Chain of Custody Review

The chain of custody (COC) is an important legal document that tracks the samples from collection through shipping and handling, preparation and analysis and finally, disposal. During the DQA process the COCs associated with the data were reviewed for completeness and accuracy. No documentation issues were noted.

Section 2.
References

CDM Smith. Quality Assurance Project Plan, Orrington Remediation Site, Orrington, Maine. August 2015.

CDM Smith. *Revised Landfills 1 & 2 Phase II Pre-Design Work Plan*. Orrington Remediation Site, Orrington, ME. July 2015.

USEPA *New England Environmental Data Review Supplement for Region l, Data Review Elements and Superfund Specific Guidance,* April 2013.

USEPA. *National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014 (OSWER 9355.0-132, EPA 540-R-014-002)

USEPA. *National Functional Guidelines for Inorganic Superfund Data Review*, August 2014 (OSWER 9355.0-131, EPA 540-R-013-001)

APPENDIX E

Geotechnical Laboratory Reports

DRAFT

Orrington Remediation Site
Orrington, ME

TEST STANDARD			Stratum	MOISTURE (ASTM D2216)	GRAIN SIZE (ASTM D422)								-		ATTERBERG LIMITS (ASTM D4318)			USCS (ASTM D2487)	DIRECT SHEAR (ASTM D3080) (σ_v = (ref COCs), ρ = 95% of Max ρ_d, ω= 0 - +3%)	
SAMPLE No.	SAMPLE LOCATION	Depth Interval (ft)		(%)	PASSING 3-in. (%)	PASSING 3/4-in. (%)	PASSING No. 4 (%)	PASSING No. 10 (%)	PASSING No. 20 (%)	PASSING No. 40 (%)	PASSING NO.100 (%)	PASSING NO.200 (%)	Gravel Fraction (%)	Sand Fraction (%)	LL	PL	PI	Class Code	Cohesion, c (lb/ft2)	Friction angle, ϕ (°)
Landfill 2																				
GB-LF2-01	GB-LF2-01	0-10	1	19.6	100	95.9	92.2	88.1	81.7	65.1	34.5	27	7.8	65.2	21	15	6	SC-SM	-	-
GB-LF2-01	GB-LF2-01	16-51.83	6	10.4	100	100	81	72.8	66.7	61.7	55.6	48.7	19	32.3	21	12	9	SC	-	-
GB-LF2-02	GB-LF2-02	0-4.5	1	6.4	100	100	69.8	51.2	37.4	27	15.1	11.7	30.2	58.1	NV	NP	NP	SP-SM	-	-
GB-LF2-02	GB-LF2-02	4.5-19	1	10.5	100	100	78.2	70.2	62.8	56.8	47.3	41.9	21.8	36.3	21	16	5	SC-SM	66.5	35.2
GB-LF2-02	GB-LF2-02	19-44	6	8.3	100	100	82.8	74.3	67.6	61.9	53.1	47.9	17.2	34.9	22	15	7	SC-SM	330	33.2
GB-LF2-03	GB-LF2-03	8-9.25	3	14.1	100	95.4	65.4	53.6	47.1	44	38.2	33.4	34.6	32	22	18	4	GC-GM	-	-
GB-LF2-03	GB-LF2-03	12-13.4	4	20	100	100	92.2	86.6	77.6	55.8	19.9	9.7	7.8	82.5	NV	NP	NP	SW-SM	-	-
GB-LF2-04	GB-LF2-04	0-13.75	1	17.5	100	100	88.7	78.4	69.6	63.3	53.5	46.7	11.3	42	30	22	8	SC	-	-
GB-LF2-04	GB-LF2-04	13.75-51	3 and 6	9.6	100	100	89.9	82.9	77.1	72.3	63.9	58.2	10.1	31.7	22	13	9	CL	-	-
GB-LF2-05	GB-LF2-05	2.25-6	1	9.7	100	95.8	75.2	62.7	53.3	46.4	37.6	33.2	24.8	42	5	8	NP	SM	-	-
GB-LF2-05	GB-LF2-05	8-9.75	3	8.4	100	85.3	61.5	52.8	46.1	40.8	33.1	29.2	38.5	32.3	21	14	7	GC-GM	-	-
GB-LF2-06	GB-LF2-06	24-25.75	4	21.7	100	100	99.6	99.3	99	90	36.5	15.1	0.4	84.5	NV	NP	NP	SM	-	-
GB-LF2-06	GB-LF2-06	6-7.7	1	19.2	100	100	99.9	99.3	97.7	95	74.6	47.8	0.1	52.1	NV	NP	NP	SM	-	-
GB-LF2-07	GB-LF2-07	4.6-5.2	1	1.3	100	83.7	45.2	30	20.8	15.6	9.3	7	54.8	38.2	NV	NP	NP	GW-GM	-	-
GB-LF2-07	GB-LF2-07	12-13.5	3	12.1	100	100	79	68.2	59.5	52.9	44.3	39.5	21	39.5	22	14	8	SC	-	-
No. of tests performed:				15	15											15		15		2

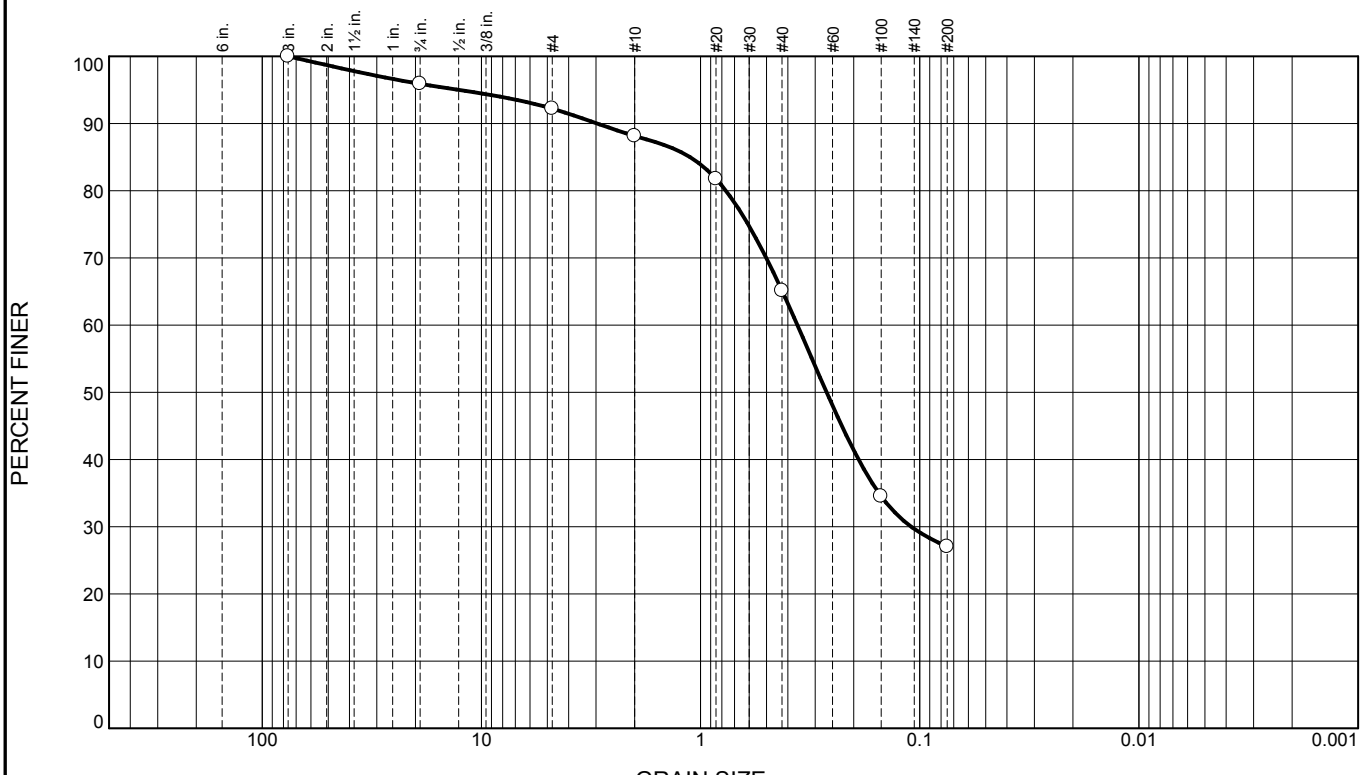
Notes:

1. Stratum designations include:

Stratum 1	=	Fill (from facility operations)/Material requiring offsite disposal
Stratum 2	=	Peat/organics (naturally occuring, usually a combination of sand and silt, sometimes clayey)
Stratum 3	=	Clay and Silt Layers (naturally occuring, range from Silt to Clay to mix of Silt and Clay, traces of sand and gravel common
Stratum 4	=	Sand Layers (naturally occuring, range from Poorly graded sand with trace gravel to silty or clayey sands)
Stratum 5	=	Gravel Layers (naturally occuring, primarily gravel material, usually with some to trace silt and some to trace sand, seen primarily in LF 1)
Stratum 6	=	Till (dense silt or silty sand layer with little to trace gravel, often trace clay, and cobbles)
Stratum 7	=	Bedrock (blue-grey phyllite Schist)

2. Abbreviations: ASTM= American Society for Testing and Materials; NV = No value; NP = not plastic.
3. USCS Symbols, based on ASTM D2487 method of classification for soils for engineering **purposes:** .
4. Samples listed correspond to those samples identified for laboratory testing as summarized in an email to Maine DEP on July **18, 2015**. **No changes were made to the proposed testing program submitted on that date.**

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.1	3.7	4.1	23.0	38.1	27.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	95.9		
#4	92.2		
#10	88.1		
#20	81.7		
#40	65.1		
#100	34.5		
#200	27.0		

* (no specification provided)

Material Description

Silty, clayey sand

Atterberg Limits

PL= 15 LL= 21 PI= 6

Coefficients

D_{90}= 2.9682 D_{85}= 1.1175 D_{60}= 0.3616
D_{50}= 0.2661 D_{30}= 0.1095 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC-SM AASHTO= A-2-4(0)

Remarks

As received moisture content=19.6%

Source of Sample: GB-LF2-01-150616-0-10

Date: 6/16/2015

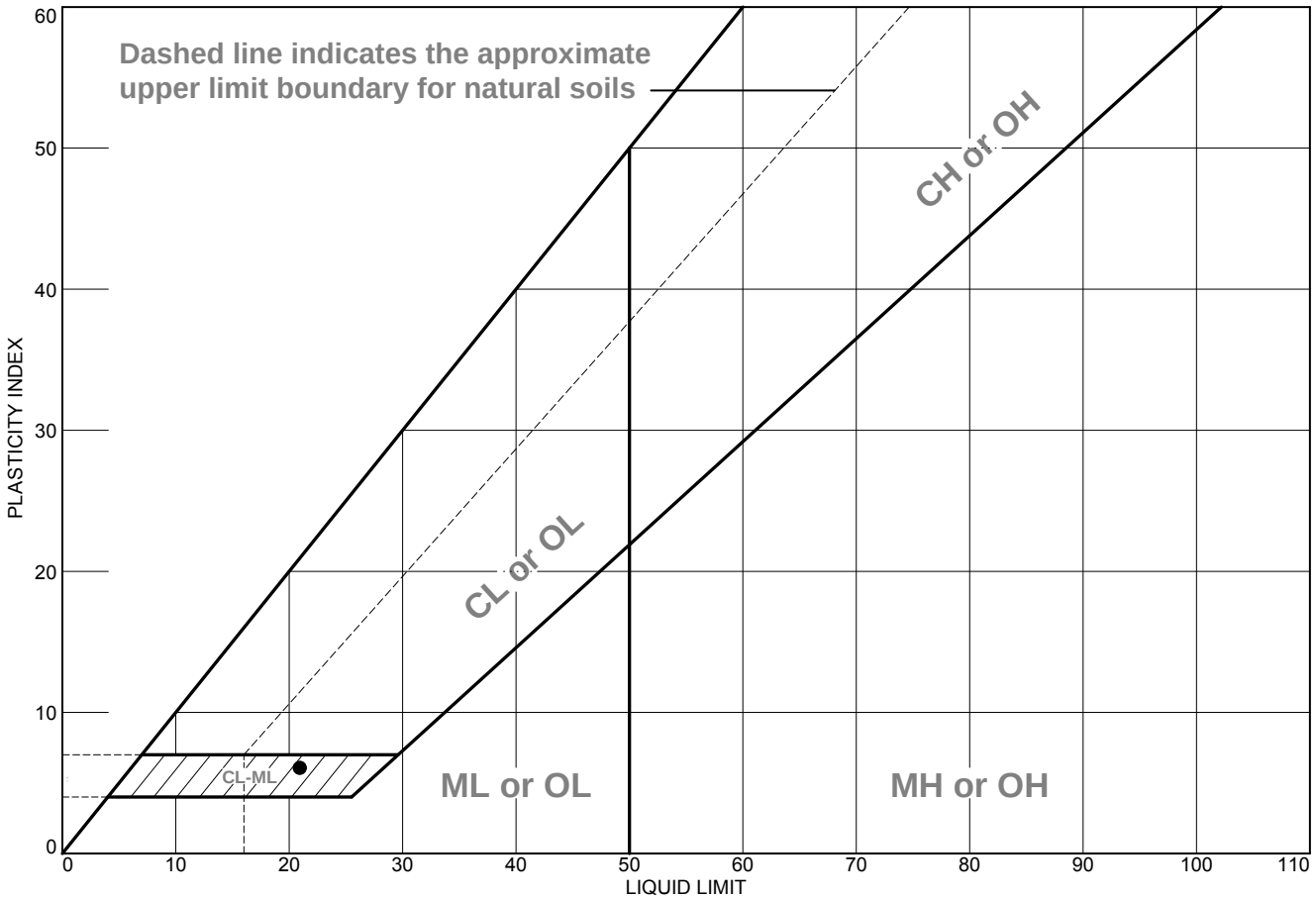
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty, clayey sand	21	15	6	65.1	27.0	SC-SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-01-150616-0-10

Remarks:

●As received moisture content=19.6%

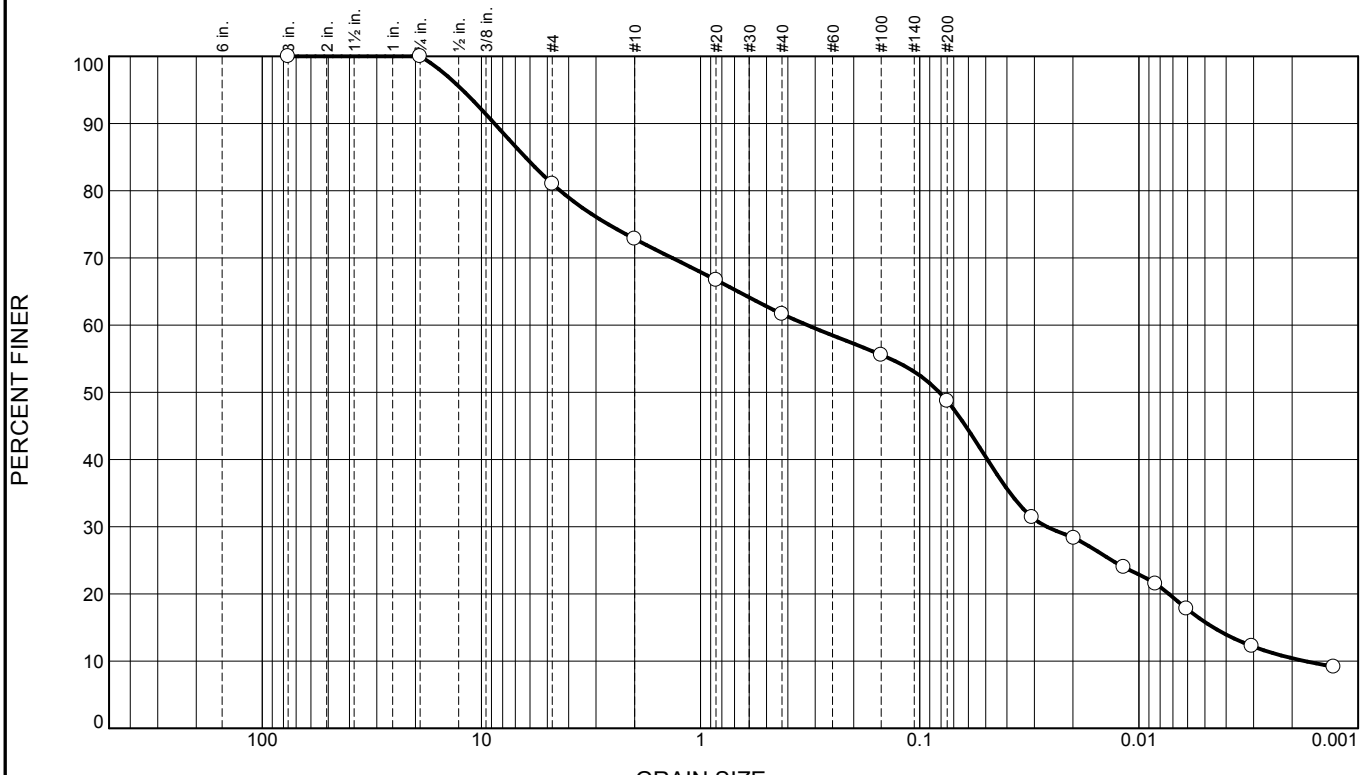
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.0	8.2	11.1	13.0	32.9	15.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	81.0		
#10	72.8		
#20	66.7		
#40	61.7		
#100	55.6		
#200	48.7		

* (no specification provided)

Material Description

Clayey sand with gravel

Atterberg Limits

PL= 12 LL= 21 PI= 9

Coefficients

D_{90}= 8.7234 D_{85}= 6.3075 D_{60}= 0.3261
D_{50}= 0.0814 D_{30}= 0.0264 D_{15}= 0.0046
D_{10}= 0.0017 C_u= 186.77 C_c= 1.22

Classification

USCS= SC AASHTO= A-4(1)

Remarks

As received moisture content=10.4%

Source of Sample: GB-LF2-01-150616-16-51.83 **Depth:** 16-51.83

Date: 6/16/15

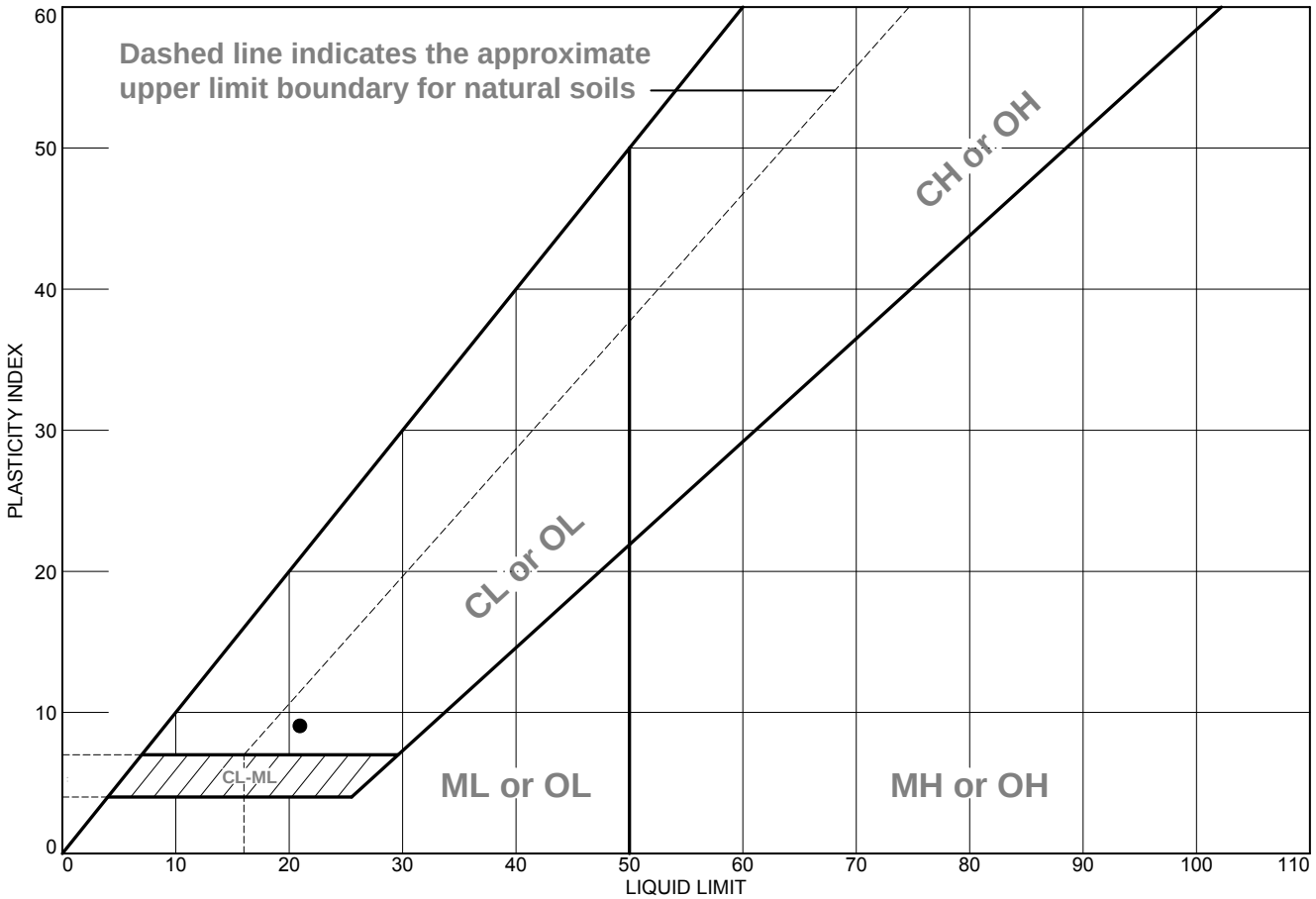
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JC **Checked By:** BFM

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Clayey sand with gravel	21	12	9	61.7	48.7	SC

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-01-150616-16-51.83 **Depth:** 16-51.83

Remarks:

●As received moisture content=10.4%

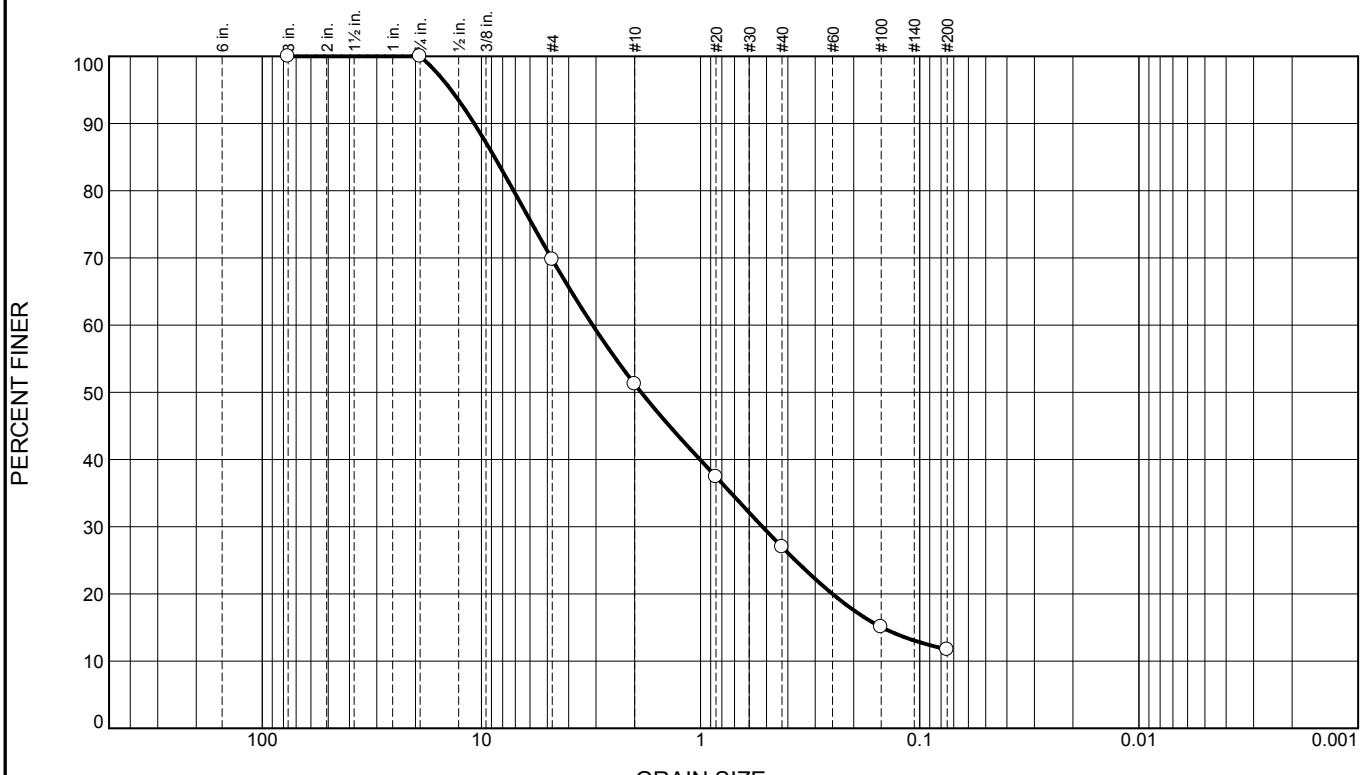
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	30.2	18.6	24.2	15.3	11.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	69.8		
#10	51.2		
#20	37.4		
#40	27.0		
#100	15.1		
#200	11.7		

* (no specification provided)

Material Description

Poorly graded sand with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 10.7892 D_{85}= 8.7136 D_{60}= 3.1088
D_{50}= 1.8679 D_{30}= 0.5220 D_{15}= 0.1486
D_{10}= C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-1-b

Remarks

As received moisture content=6.4%

Source of Sample: GB-LF2-02-150618-0-4.5

Date: 6/18/2015

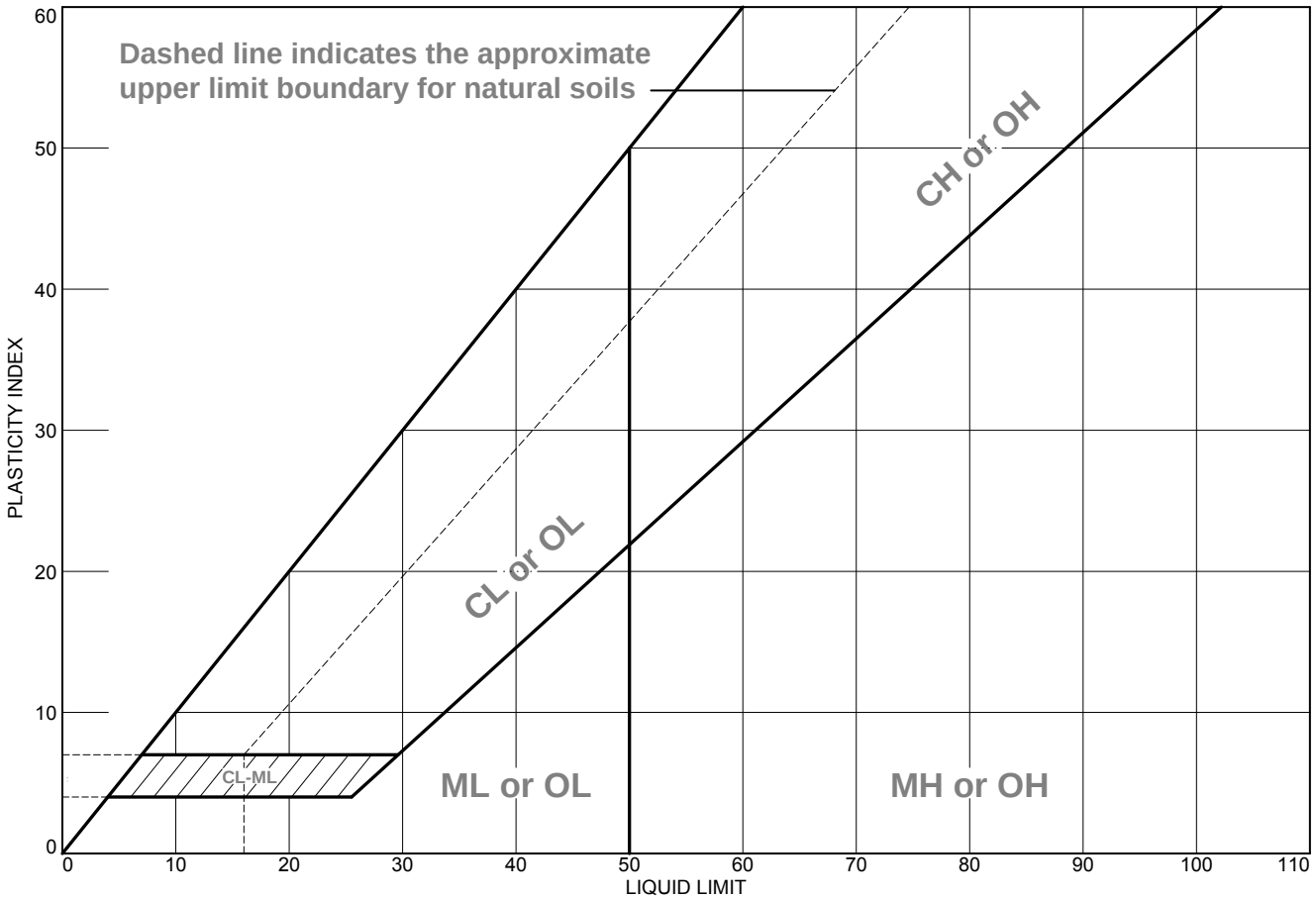
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Poorly graded sand with silt and gravel	NV	NP	NP	27.0	11.7	SP-SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-02-150618-0-4.5

Remarks:

●As received moisture content=6.4%

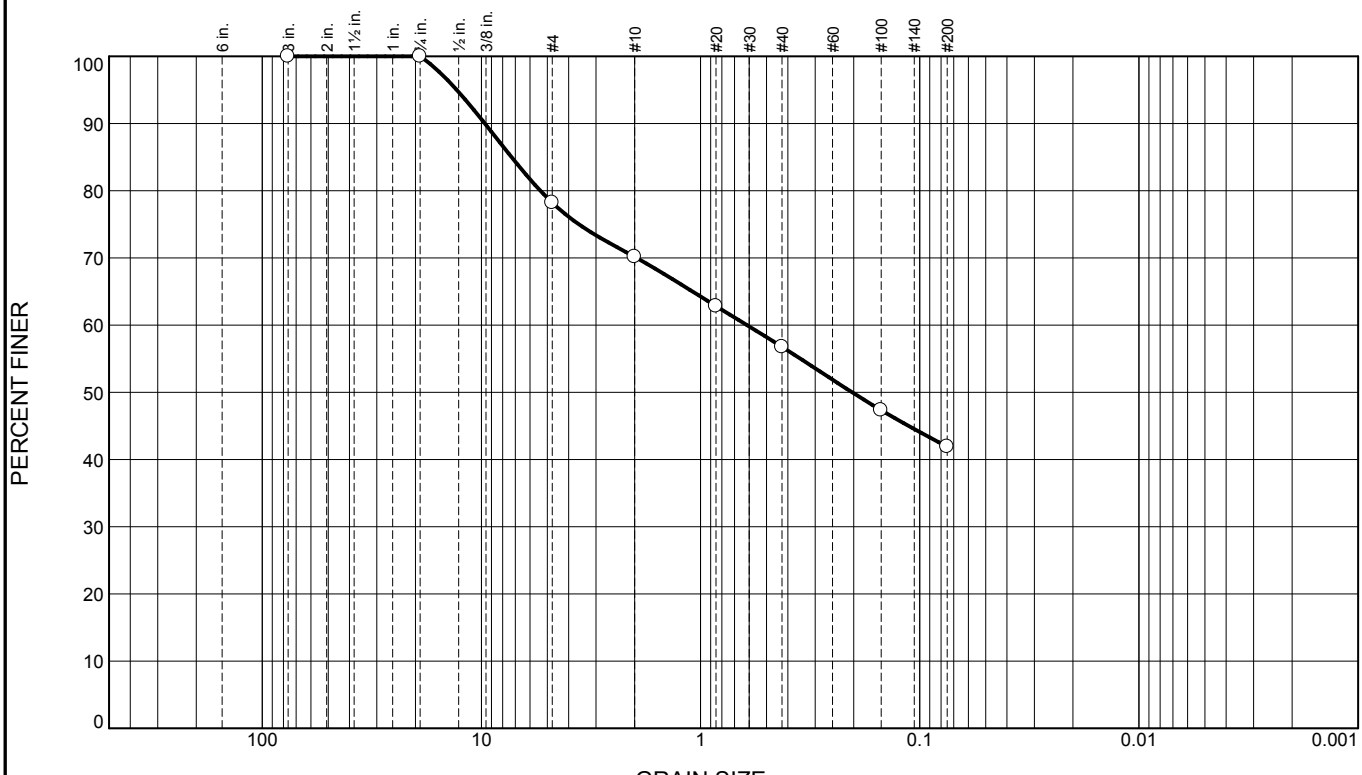
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	21.8	8.0	13.4	14.9	41.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	78.2		
#10	70.2		
#20	62.8		
#40	56.8		
#100	47.3		
#200	41.9		

* (no specification provided)

Material Description

Silty, clayey sand with gravel

Atterberg Limits

PL= 16 LL= 21 PI= 5

Coefficients

D_{90}= 9.6478 D_{85}= 7.2895 D_{60}= 0.6147
D_{50}= 0.2034 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC-SM AASHTO= A-4(0)

Remarks

As received moisture content=10.5%

Source of Sample: GB-LF2-02-150618-4.5-19

Date: 6/18/2015

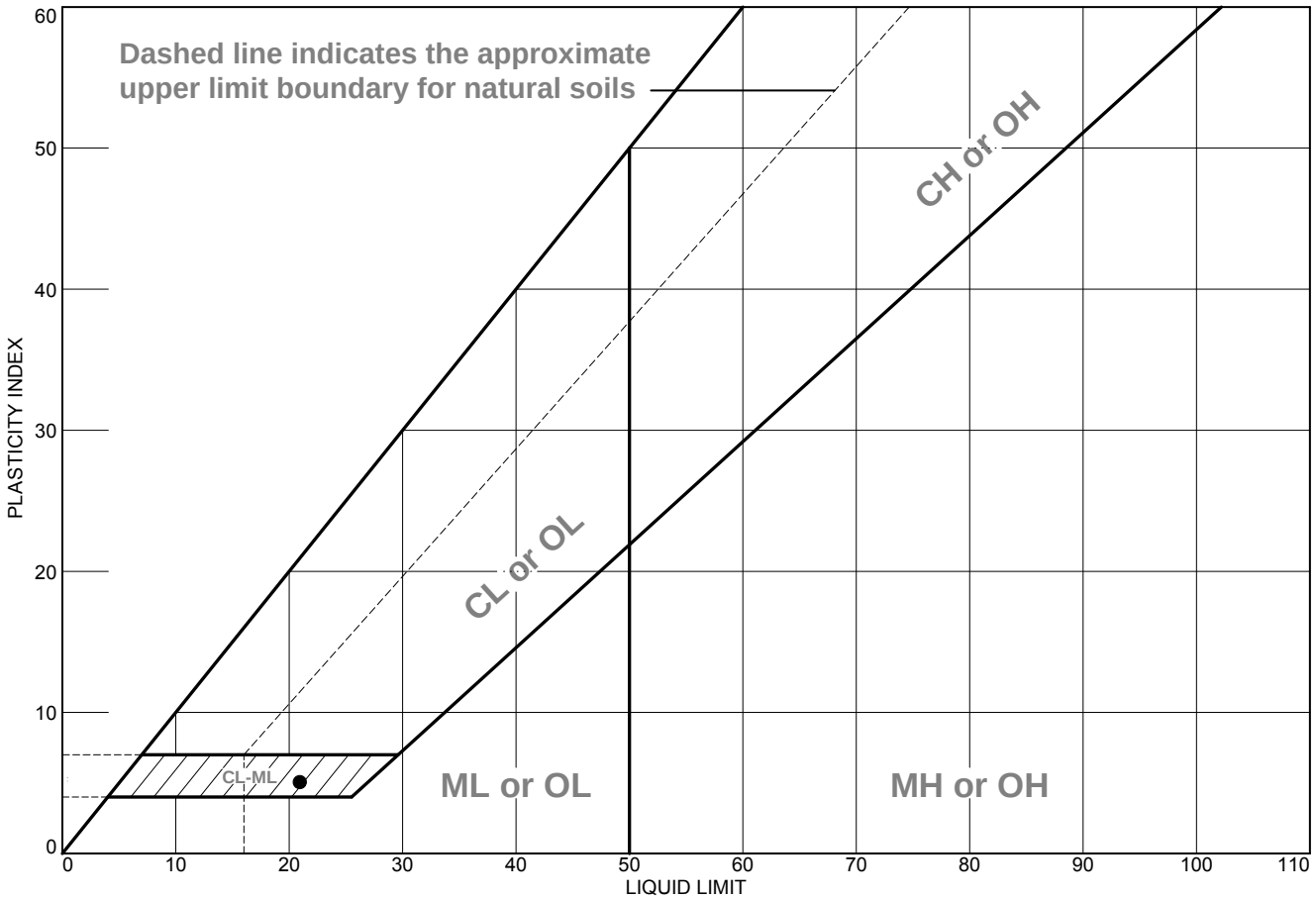
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty, clayey sand with gravel	21	16	5	56.8	41.9	SC-SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-02-150618-4.5-19

Remarks:

●As received moisture content=10.5%

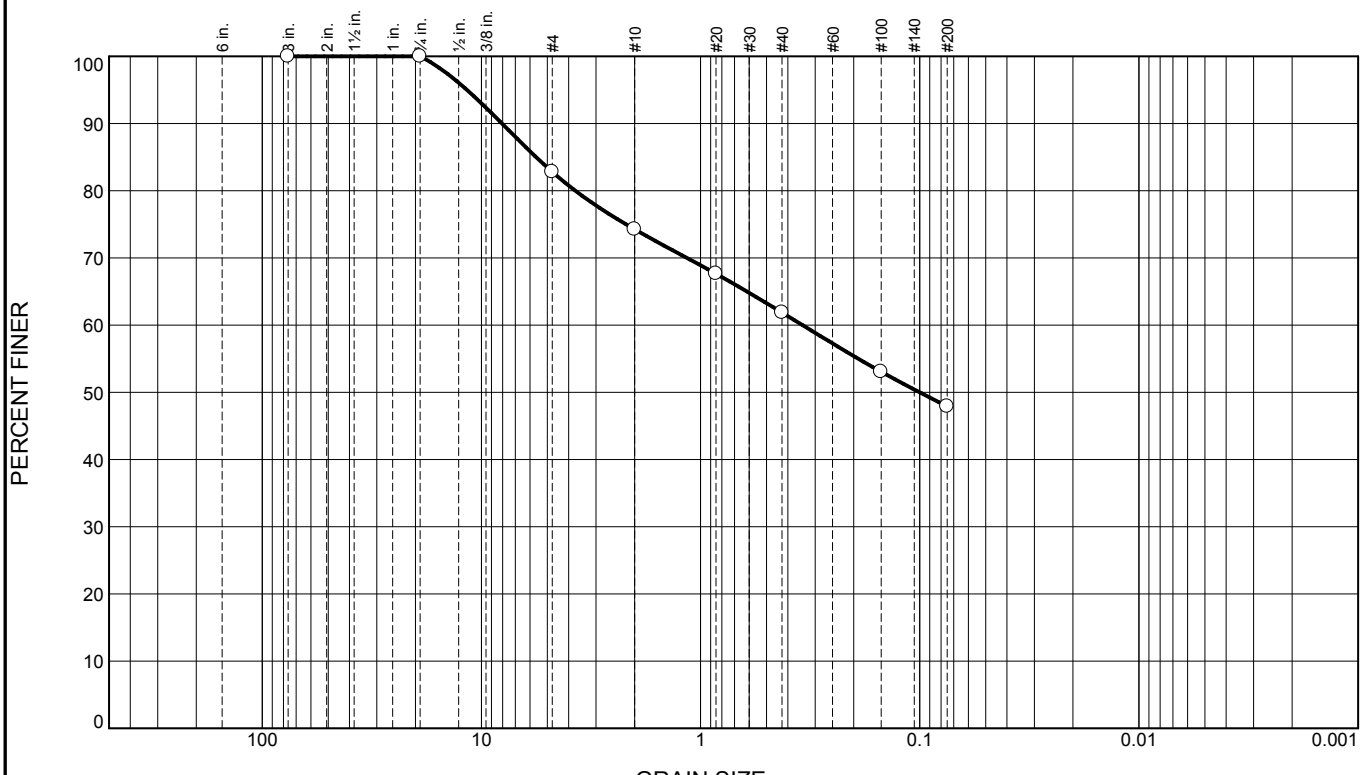
CDM Smith

Boston, Massachusetts

Figure

Tested By: BFM **Checked By:** JC

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	17.2	8.5	12.4	14.0	47.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	82.8		
#10	74.3		
#20	67.6		
#40	61.9		
#100	53.1		
#200	47.9		

* (no specification provided)

Material Description

Silty, clayey sand with gravel

Atterberg Limits

PL= 15 LL= 22 PI= 7

Coefficients

D_{90}= 8.0566 D_{85}= 5.6326 D_{60}= 0.3428
D_{50}= 0.1002 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC-SM AASHTO= A-4(0)

Remarks

As received moisture content=8.3%

Source of Sample: GB-LF2-02-150618-19-44

Date: 6/18/2015

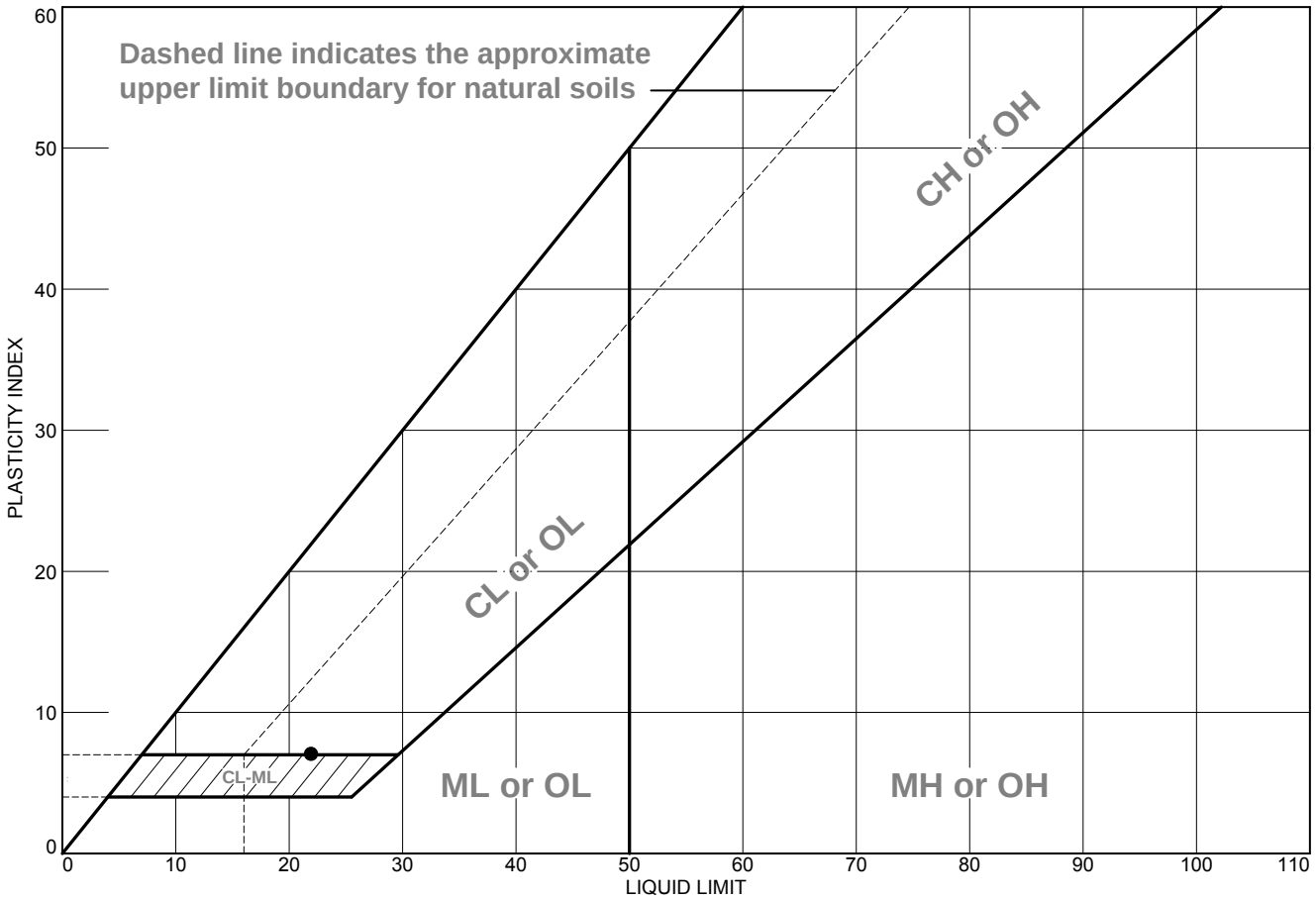
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty, clayey sand with gravel	22	15	7	61.9	47.9	SC-SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-02-150618-19-44

Remarks:

●As received moisture content=8.3%

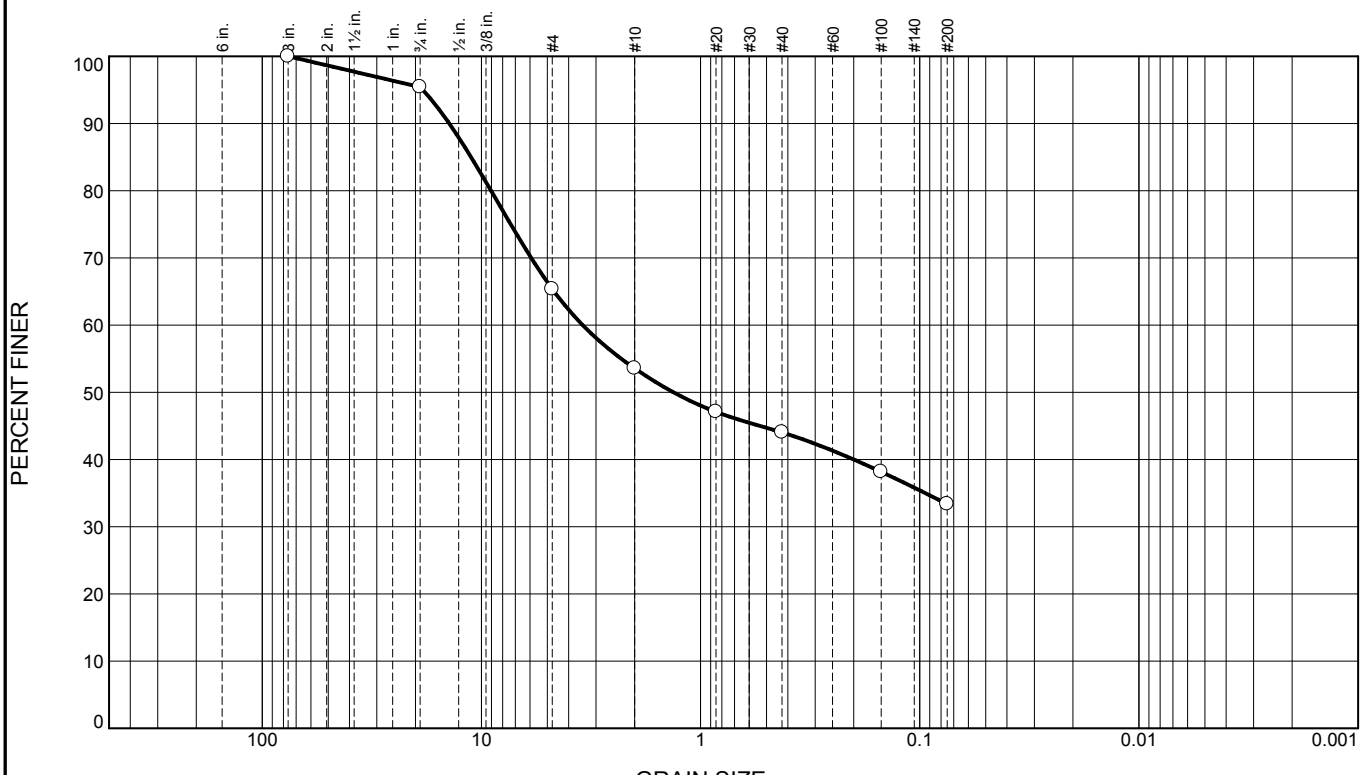
CDM Smith

Boston, Massachusetts

Figure

Tested By: BFM **Checked By:** JC

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.6	30.0	11.8	9.6	10.6	33.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	95.4		
#4	65.4		
#10	53.6		
#20	47.1		
#40	44.0		
#100	38.2		
#200	33.4		

* (no specification provided)

Material Description

Silty, clayey gravel with sand

Atterberg Limits

PL= 18 LL= 22 PI= 4

Coefficients

D_{90}= 14.0166 D_{85}= 11.1555 D_{60}= 3.4507
D_{50}= 1.3294 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC-GM AASHTO= A-2-4(0)

Remarks

As received moisture content=14.1%

Source of Sample: GB-LF2-03-150625-8-9.25

Date: 6/25/2015

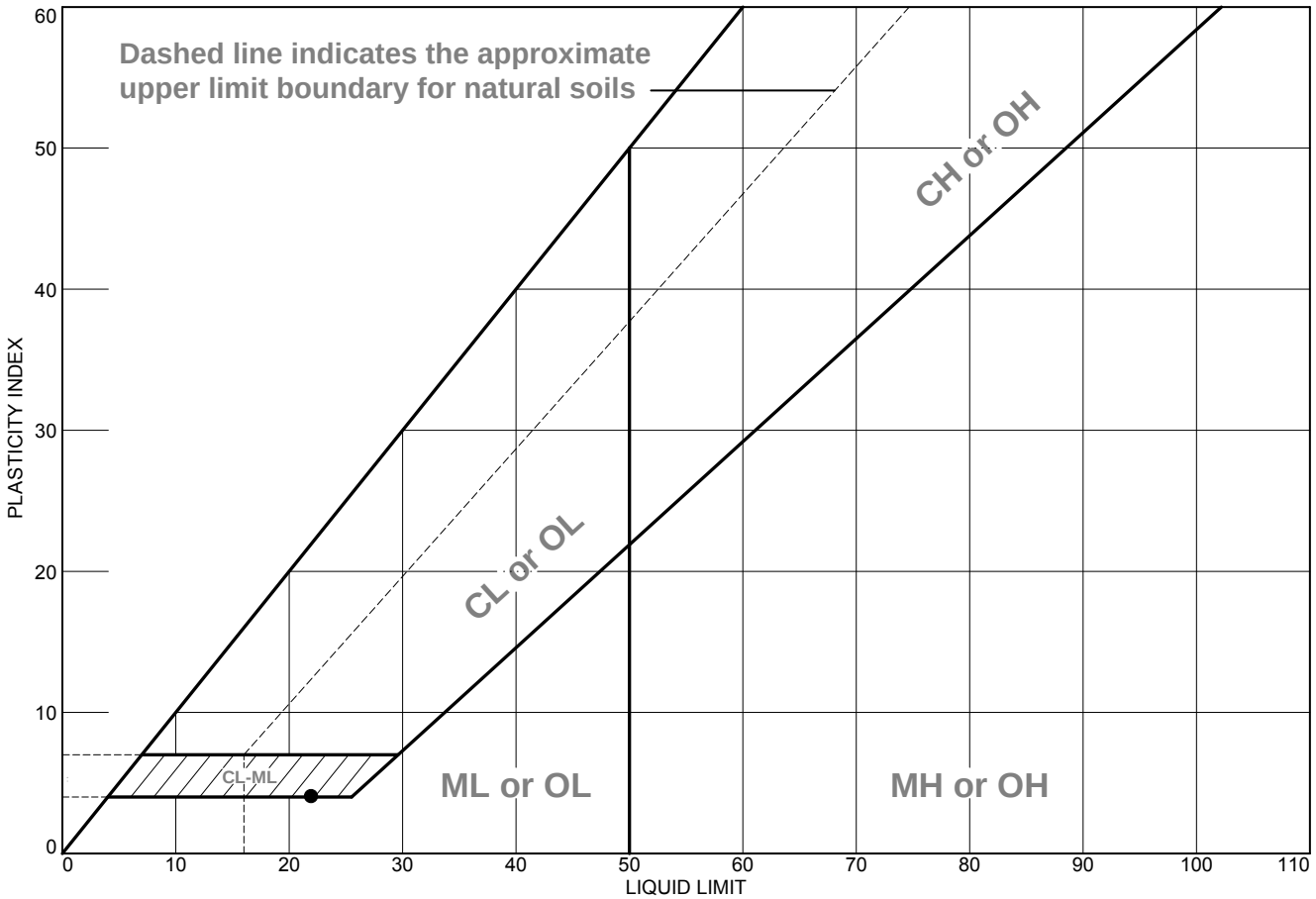
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty, clayey gravel with sand	22	18	4	44.0	33.4	GC-GM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-03-150625-8-9.25

Remarks:

●As received moisture content=14.1%

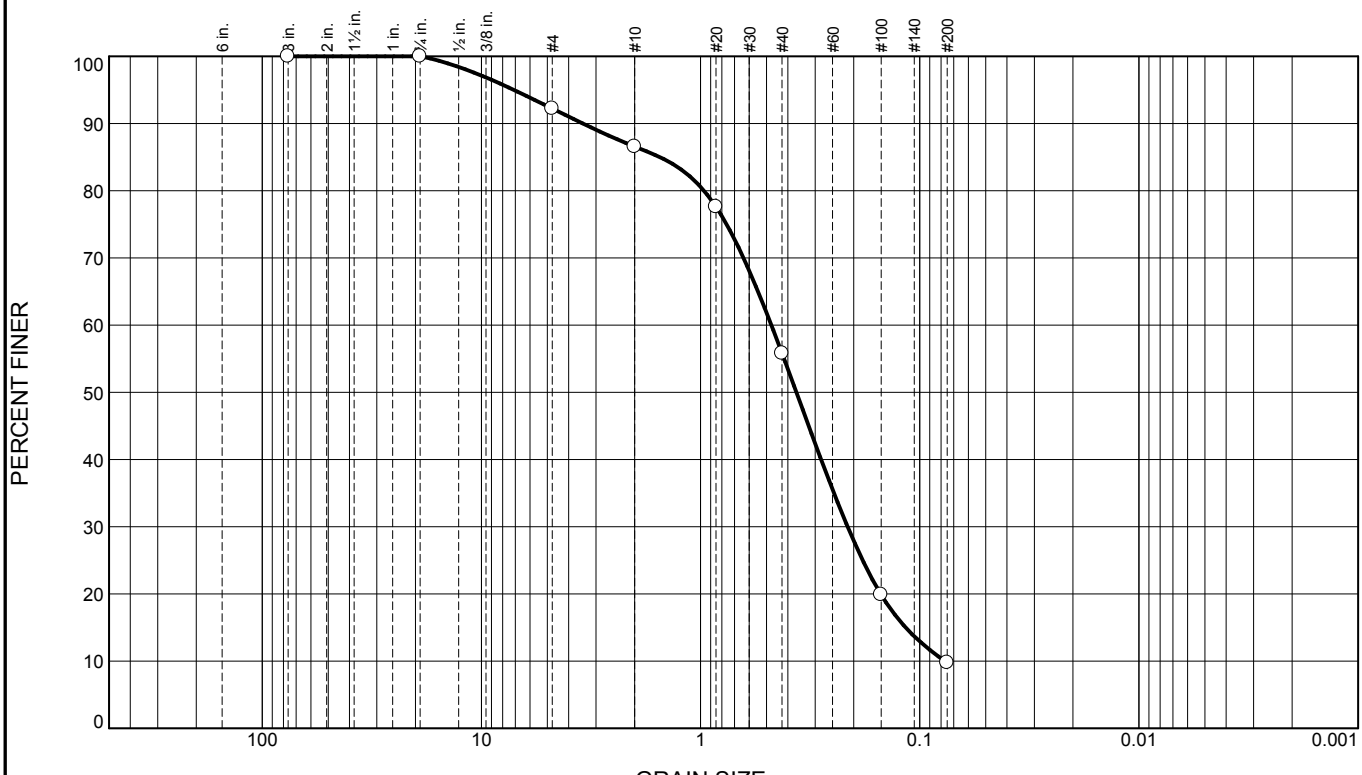
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	7.8	5.6	30.8	46.1	9.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	92.2		
#10	86.6		
#20	77.6		
#40	55.8		
#100	19.9		
#200	9.7		

* (no specification provided)

Material Description

Well-graded sand with silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 3.4474 D_{85}= 1.5347 D_{60}= 0.4755
D_{50}= 0.3655 D_{30}= 0.2134 D_{15}= 0.1161
D_{10}= 0.0769 C_u= 6.19 C_c= 1.25

Classification

USCS= SW-SM AASHTO= A-3

Remarks

As received moisture content=20.0%

Source of Sample: GB-LF2-03-150625-12-13.4

Date: 6/25/2015

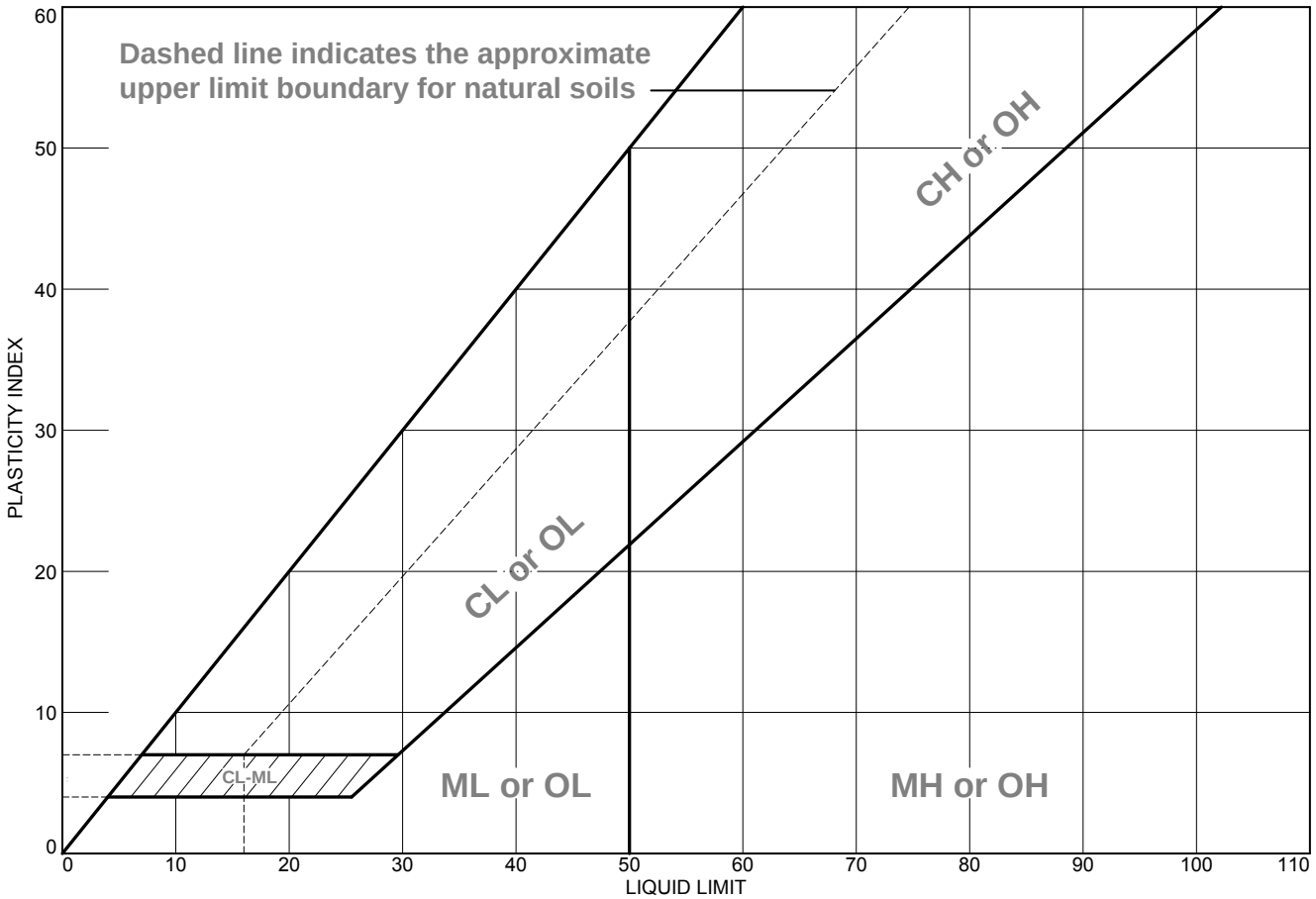
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Well-graded sand with silt	NV	NP	NP	55.8	9.7	SW-SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-03-150625-12-13.4

Remarks:

●As received moisture content=20.0%

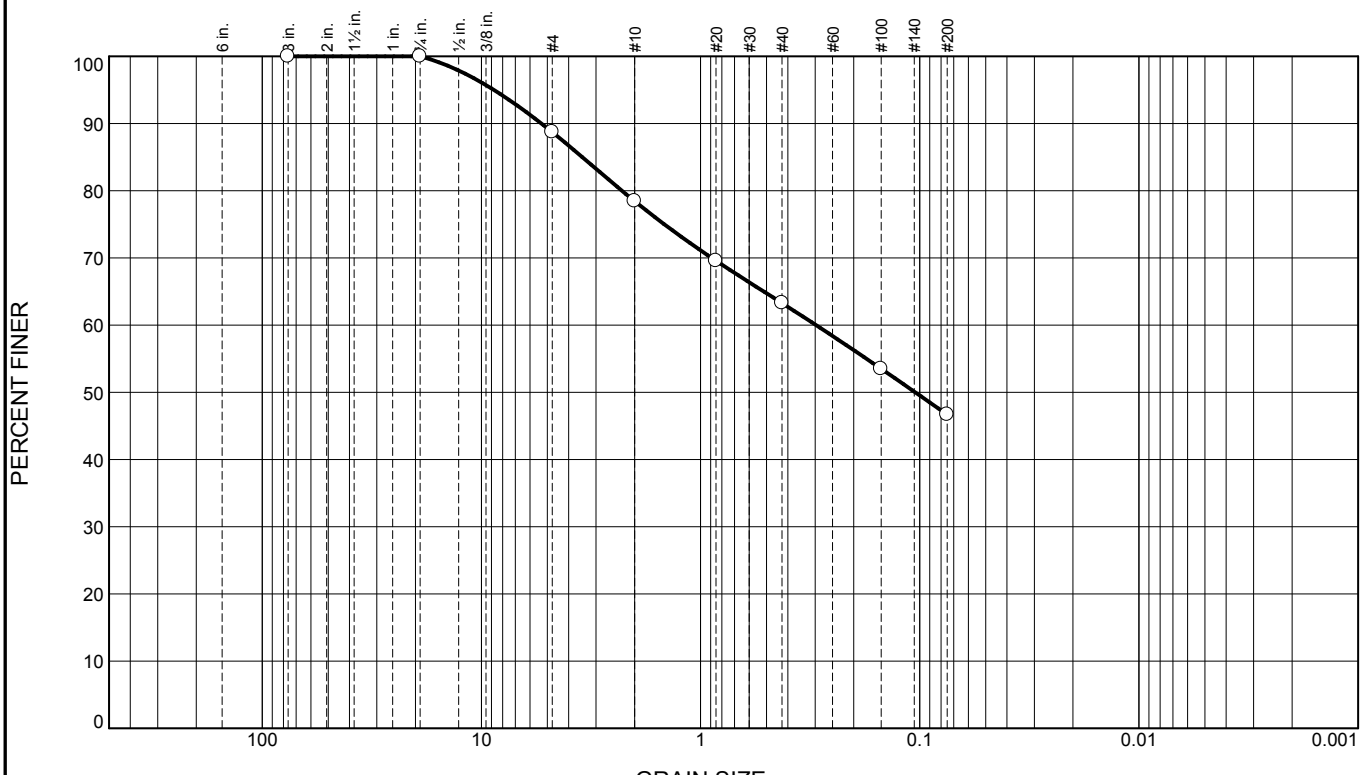
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	11.3	10.3	15.1	16.6	46.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	88.7		
#10	78.4		
#20	69.6		
#40	63.3		
#100	53.5		
#200	46.7		

* (no specification provided)

Material Description

Clayey sand

Atterberg Limits

PL= 22 LL= 30 PI= 8

Coefficients

D_{90}= 5.3286 D_{85}= 3.4656 D_{60}= 0.2974
D_{50}= 0.1049 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-4(1)

Remarks

As received moisture content=17.5%

Source of Sample: GB-LF2-04-150617-0-13.75

Date: 6/17/2015

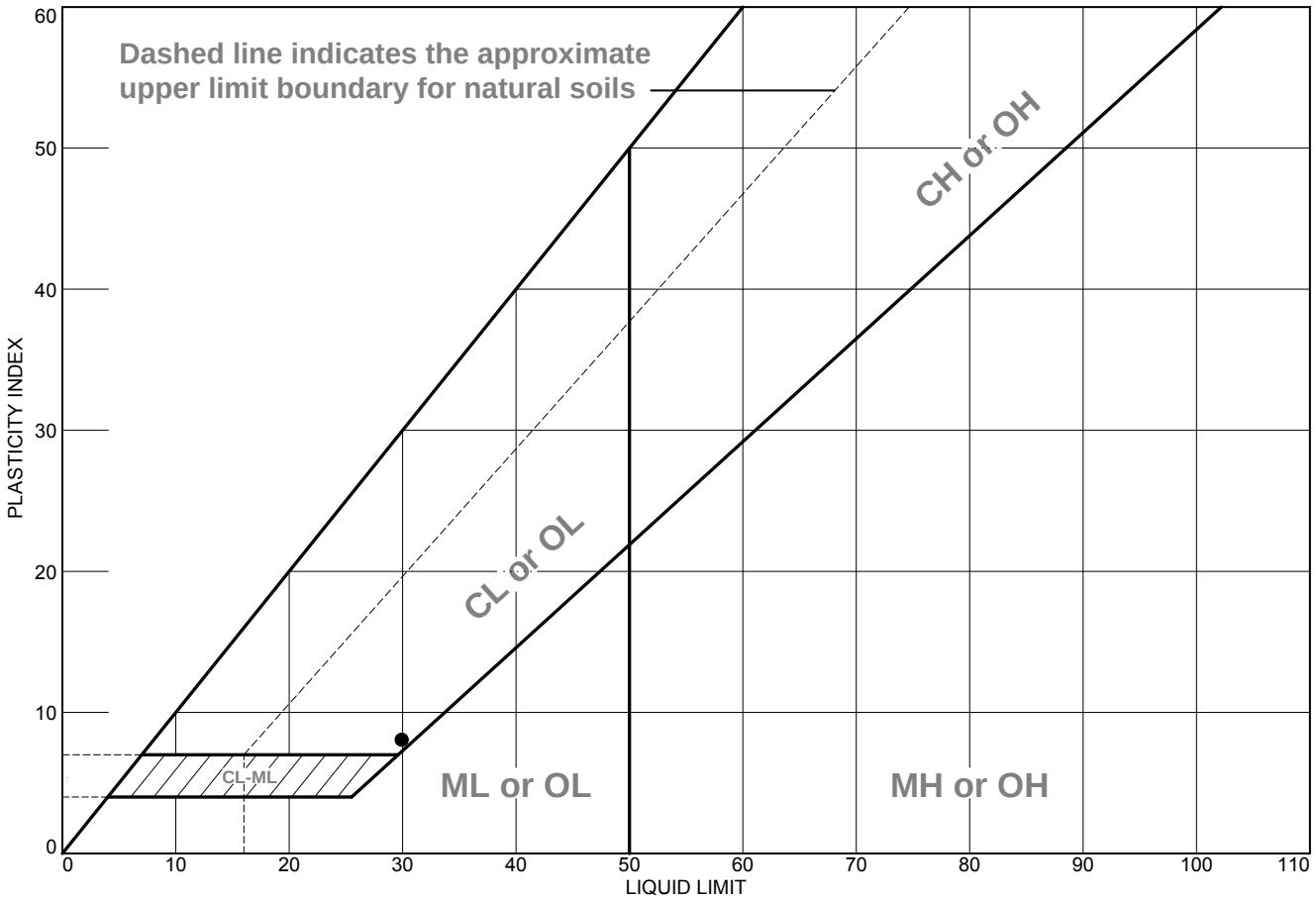
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Clayey sand	30	22	8	63.3	46.7	SC

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-04-150617-0-13.75

Remarks:

●As received moisture content=17.5%

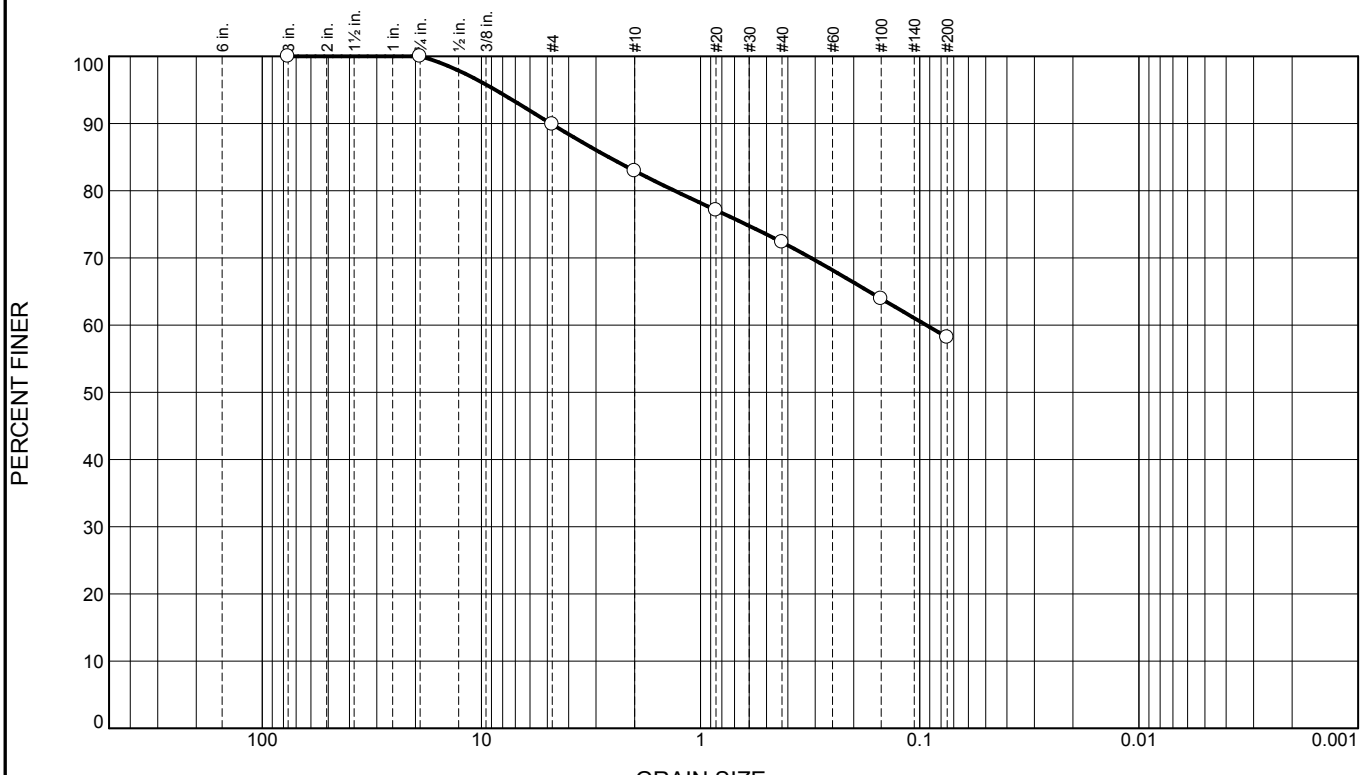
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.1	7.0	10.6	14.1	58.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	89.9		
#10	82.9		
#20	77.1		
#40	72.3		
#100	63.9		
#200	58.2		

* (no specification provided)

Material Description

Sandy lean clay

Atterberg Limits

PL= 13 LL= 22 PI= 9

Coefficients

D_{90}= 4.8260 D_{85}= 2.6260 D_{60}= 0.0934
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-4(2)

Remarks

As received moisture content=9.6%

Source of Sample: GB-LF2-04-150617-13.75-51

Date: 6/17/2015

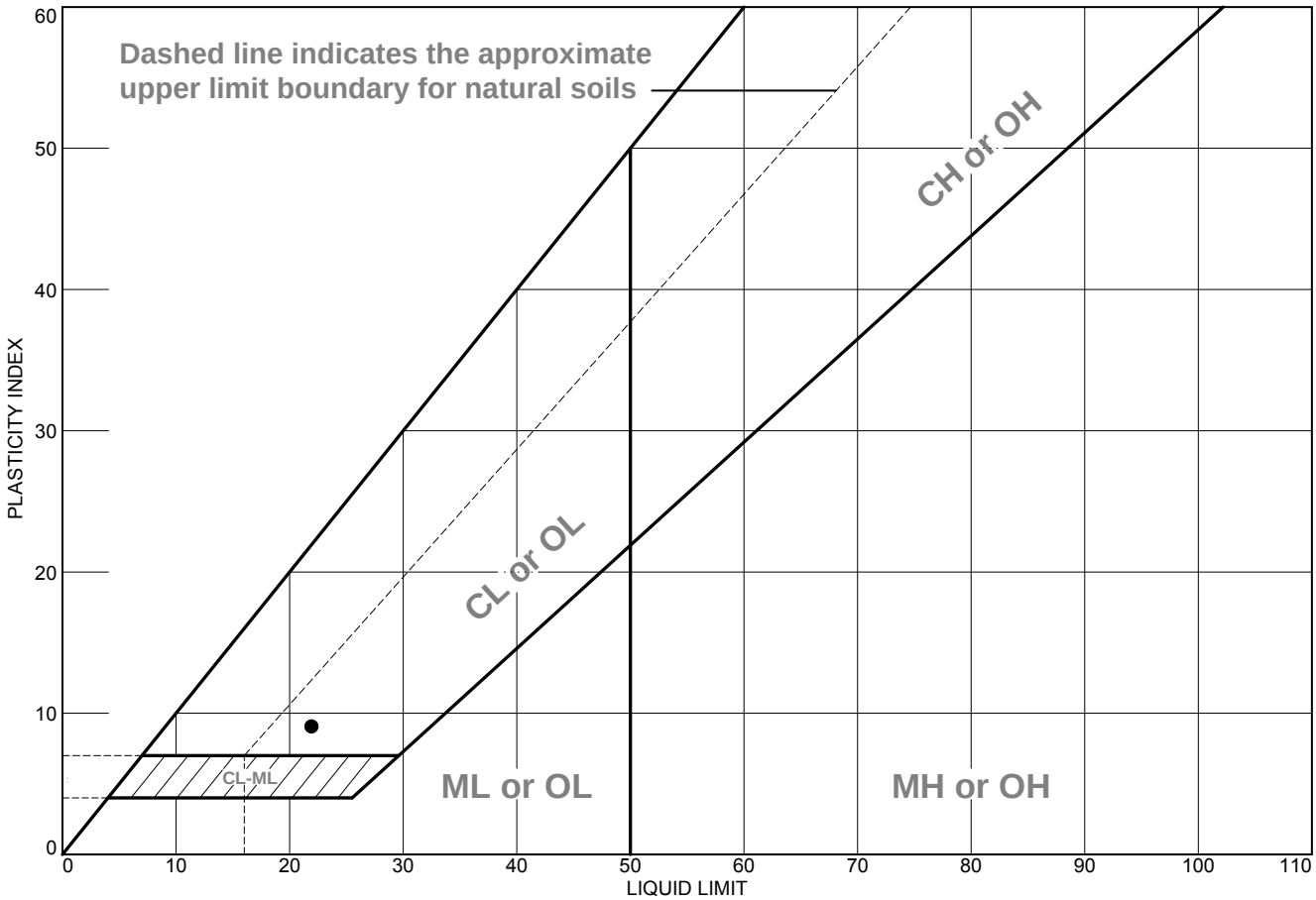
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy lean clay	22	13	9	72.3	58.2	CL

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-04-150617-13.75-51

Remarks:

●As received moisture content=9.6%

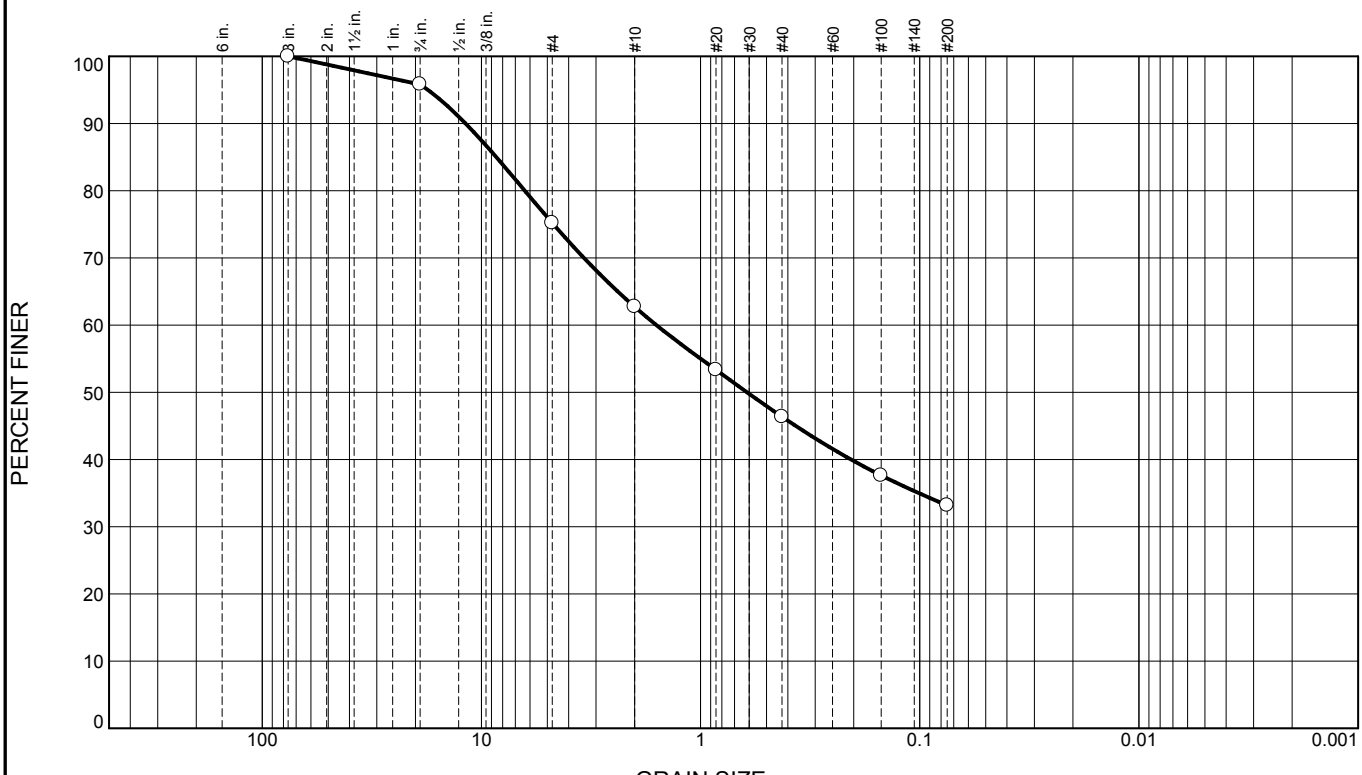
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.2	20.6	12.5	16.3	13.2	33.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	95.8		
#4	75.2		
#10	62.7		
#20	53.3		
#40	46.4		
#100	37.6		
#200	33.2		

* (no specification provided)

Material Description

Silty sand with gravel

Atterberg Limits

PL= 8 LL= 5 PI= NP

Coefficients

D_{90}= 11.8142 D_{85}= 8.5593 D_{60}= 1.5907
D_{50}= 0.6140 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

As received moisture content=9.7%

Source of Sample: GB-LF2-05-150619-2.25-6

Date: 6/19/2015

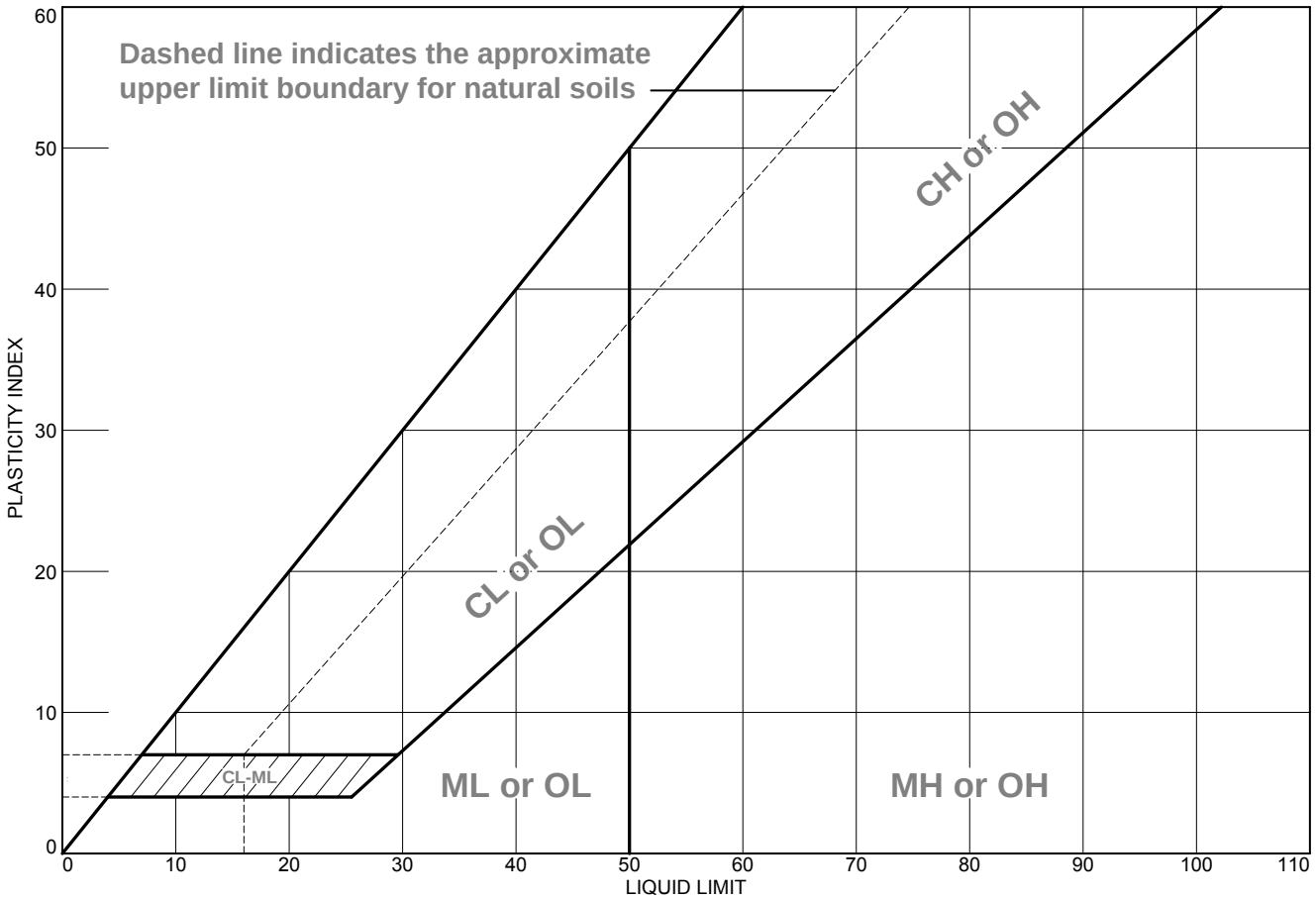
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty sand with gravel	5	8	NP	46.4	33.2	SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-05-150619-2.25-6

Remarks:

●As received moisture content=9.7%

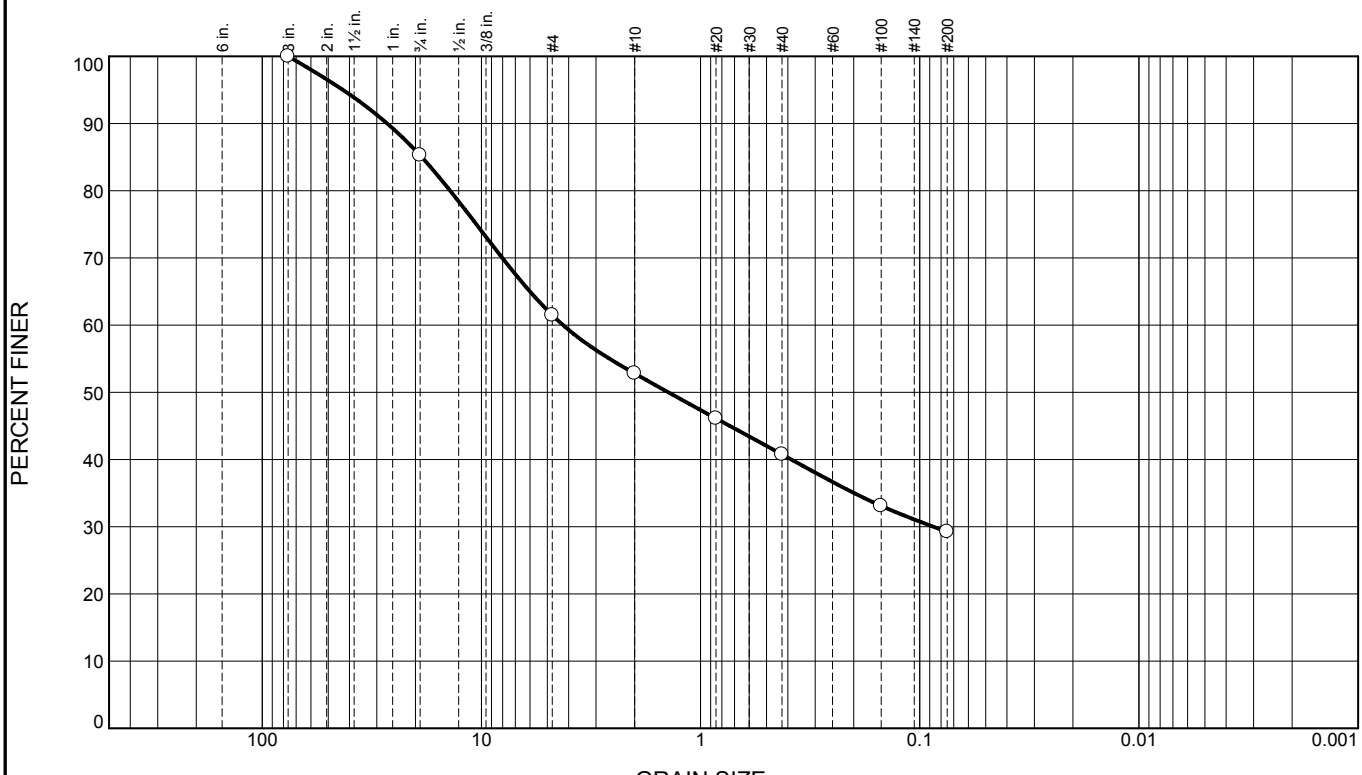
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.7	23.8	8.7	12.0	11.6	29.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	85.3		
#4	61.5		
#10	52.8		
#20	46.1		
#40	40.8		
#100	33.1		
#200	29.2		

* (no specification provided)

Material Description

Silty, clayey gravel with sand

Atterberg Limits

PL= 14 LL= 21 PI= 7

Coefficients

D_{90}= 26.9086 D_{85}= 18.7246 D_{60}= 4.2400
D_{50}= 1.4039 D_{30}= 0.0867 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC-GM AASHTO= A-2-4(0)

Remarks

As received moisture content=8.4%

Source of Sample: GB-LF2-05-150619-8-9.75

Date: 6/19/2015

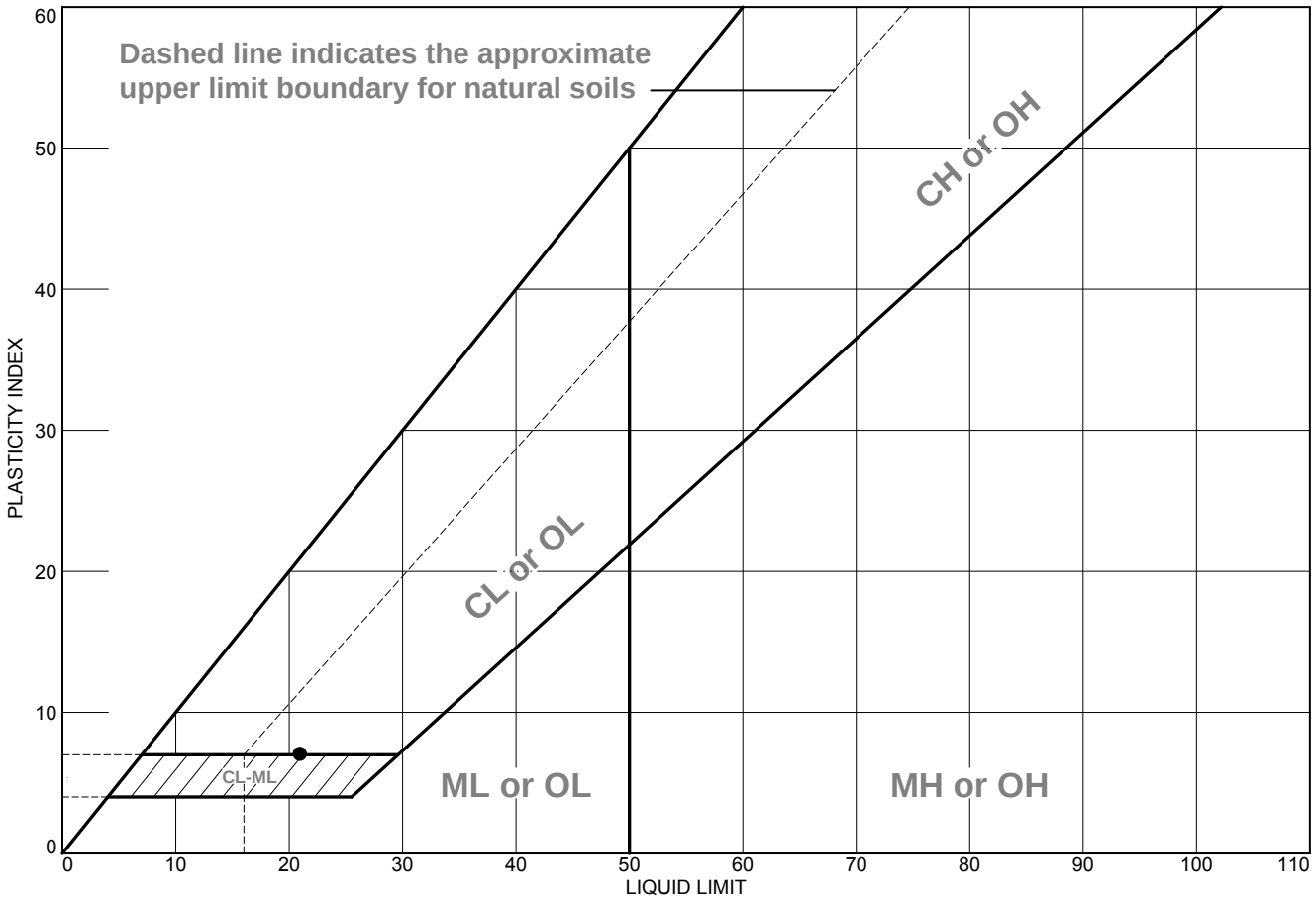
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty, clayey gravel with sand	21	14	7	40.8	29.2	GC-GM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-05-150619-8-9.75

Remarks:

●As received moisture content=8.4%

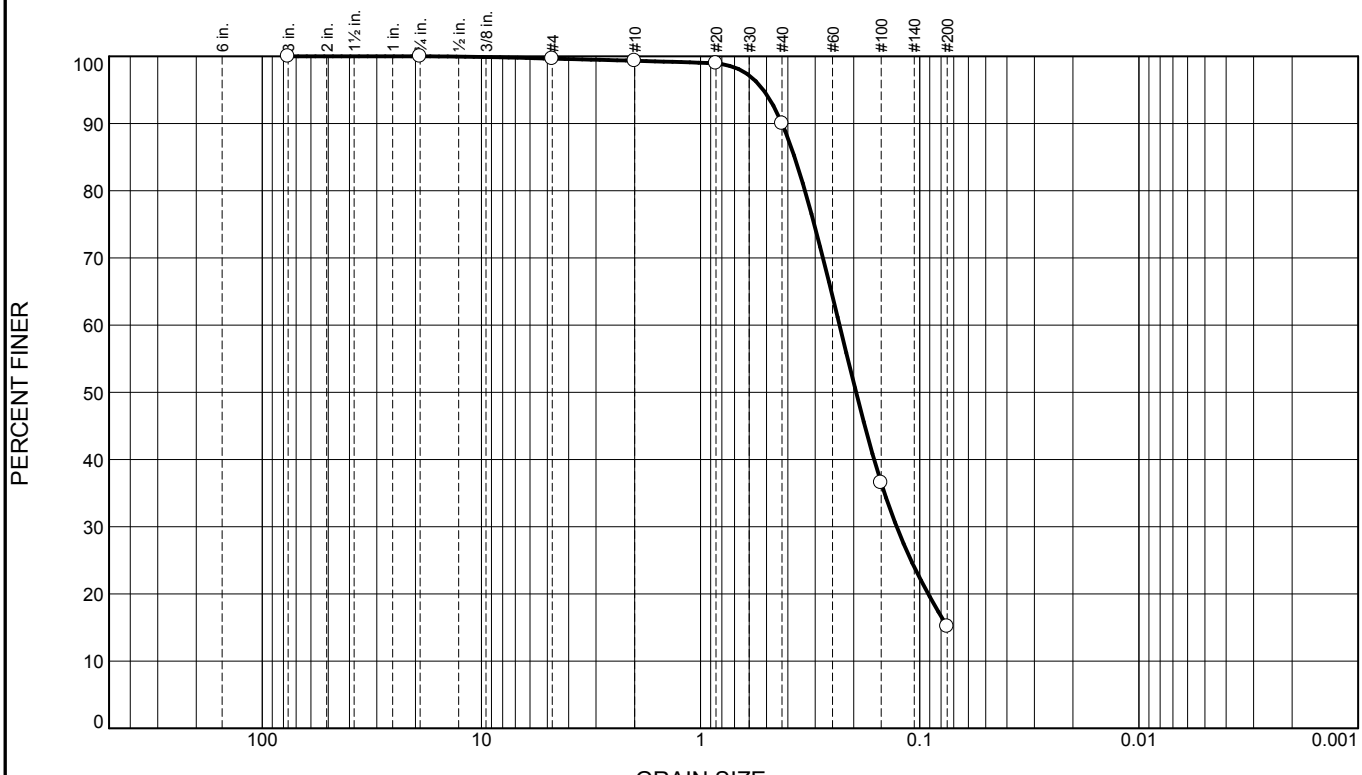
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.4	0.3	9.3	74.9	15.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	99.6		
#10	99.3		
#20	99.0		
#40	90.0		
#100	36.5		
#200	15.1		

* (no specification provided)

Material Description

Silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 0.4250 D_{85}= 0.3725 D_{60}= 0.2323
D_{50}= 0.1951 D_{30}= 0.1275 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

As received moisture content=21.7%

Source of Sample: GB-LF2-06-150623-24-25.75

Date: 6/23/2015

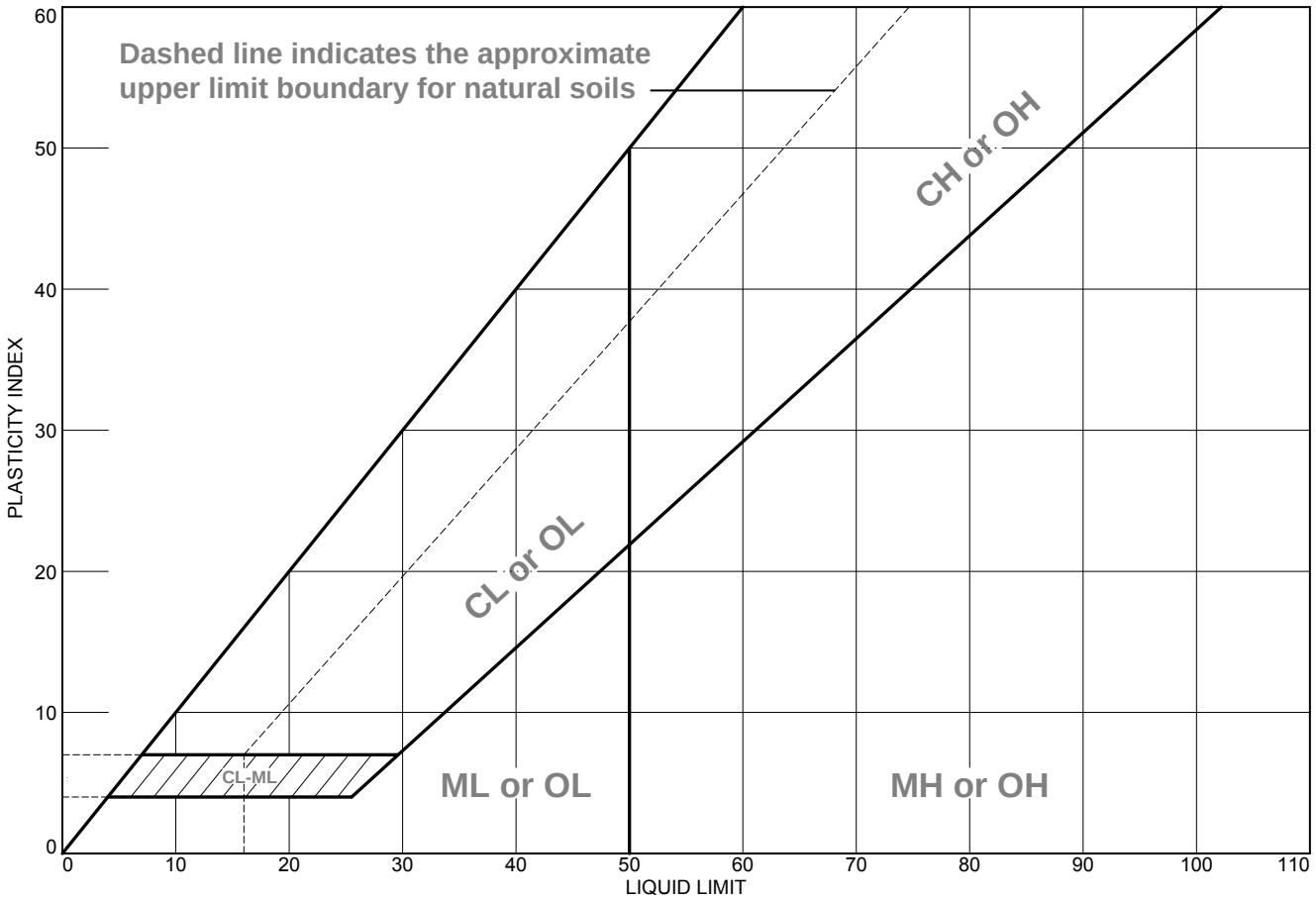
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty sand	NV	NP	NP	90.0	15.1	SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-06-150623-24-25.75

Remarks:

●As received moisture content=21.7%

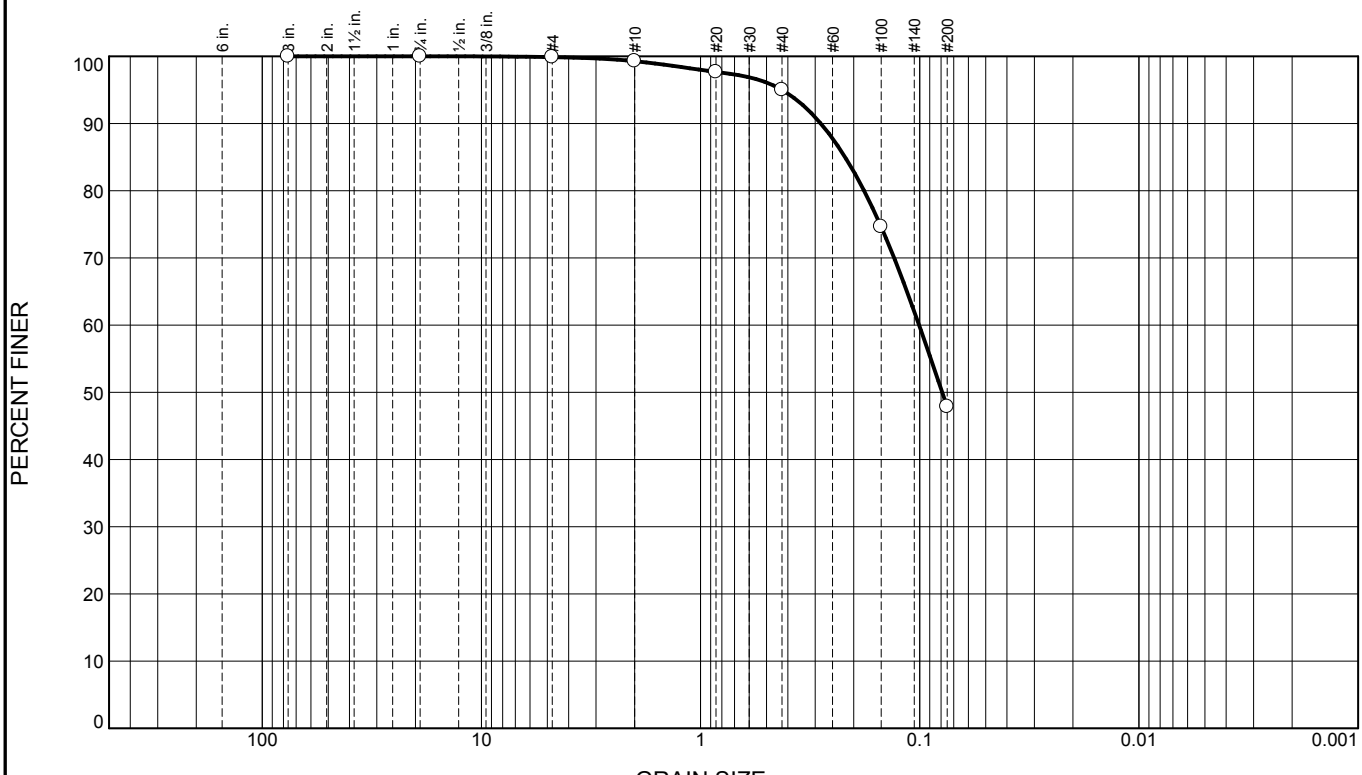
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.6	4.3	47.2	47.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	99.9		
#10	99.3		
#20	97.7		
#40	95.0		
#100	74.6		
#200	47.8		

* (no specification provided)

Material Description

Silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 0.2830 D_{85}= 0.2192 D_{60}= 0.1007
D_{50}= 0.0790 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

As received moisture content=19.2%

Source of Sample: GB-LF2-06-150624-6-7.7

Date: 6/24/2015

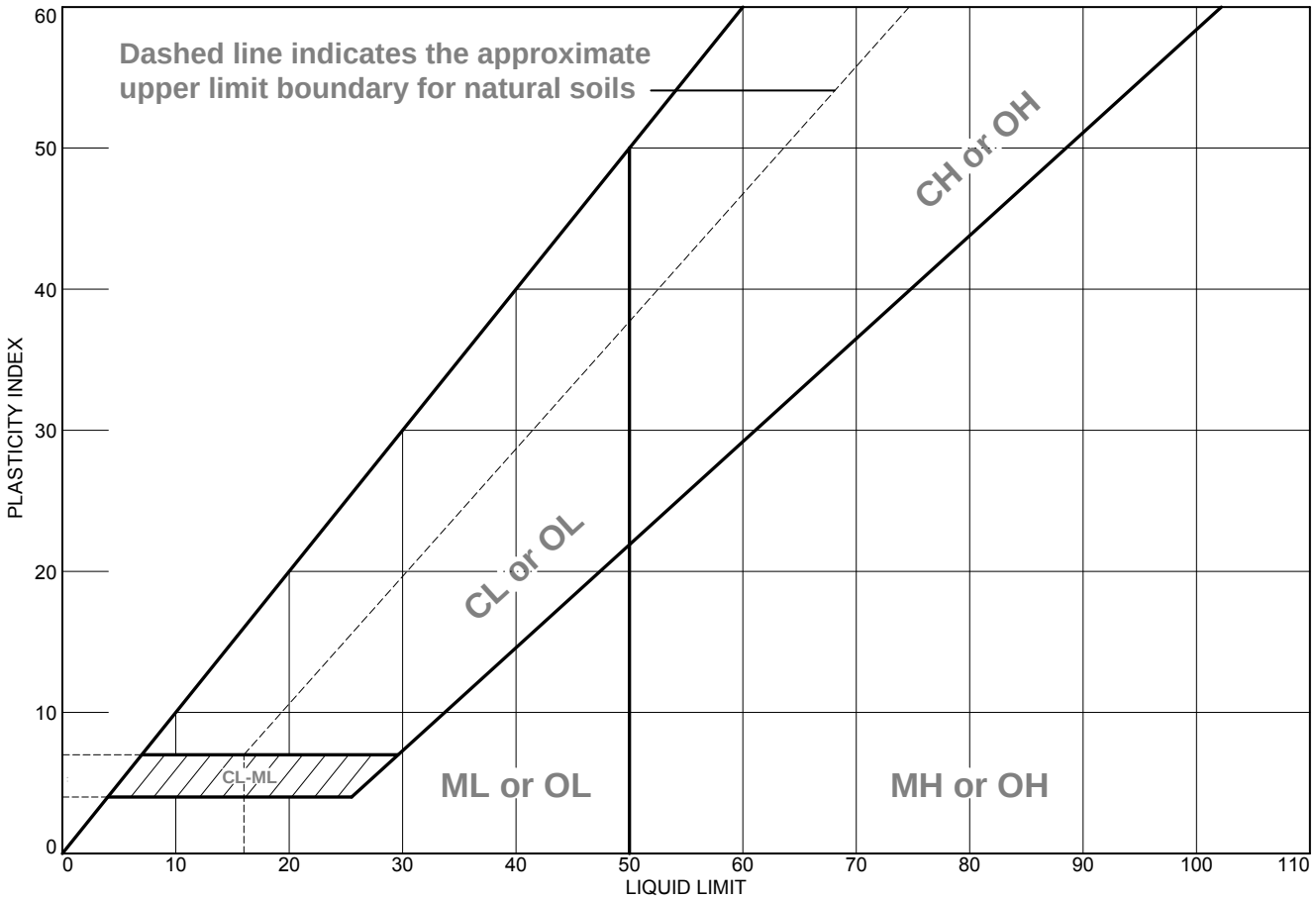
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty sand	NV	NP	NP	95.0	47.8	SM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-06-150624-6-7.7

Remarks:

●As received moisture content=19.2%

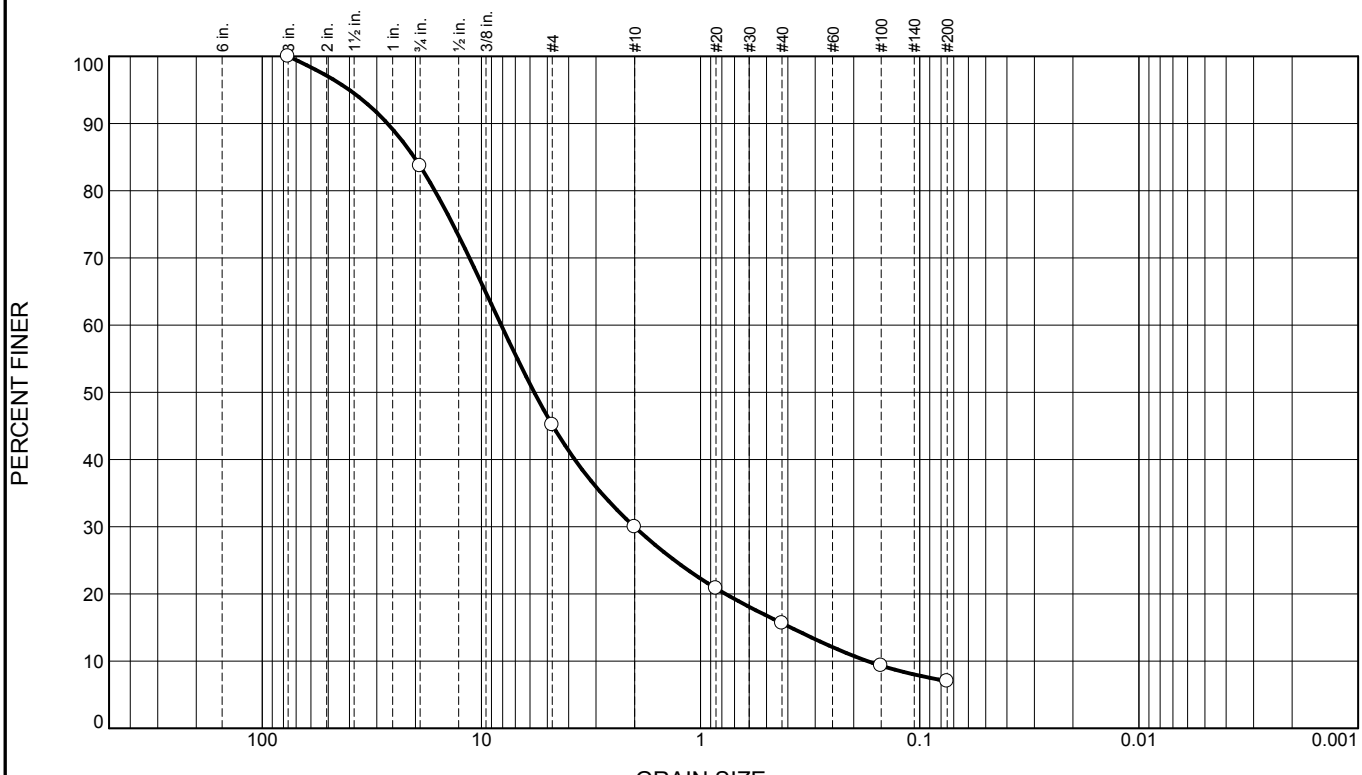
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	16.3	38.5	15.2	14.4	8.6	7.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	83.7		
#4	45.2		
#10	30.0		
#20	20.8		
#40	15.6		
#100	9.3		
#200	7.0		

* (no specification provided)

Material Description

Well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 26.8172 D_{85}= 20.2773 D_{60}= 8.1226
D_{50}= 5.7406 D_{30}= 2.0040 D_{15}= 0.3878
D_{10}= 0.1735 C_u= 46.83 C_c= 2.85

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

As received moisture content=1.3%

Source of Sample: GB-LF2-07-150623-4.6-5.2

Date: 6/23/2015

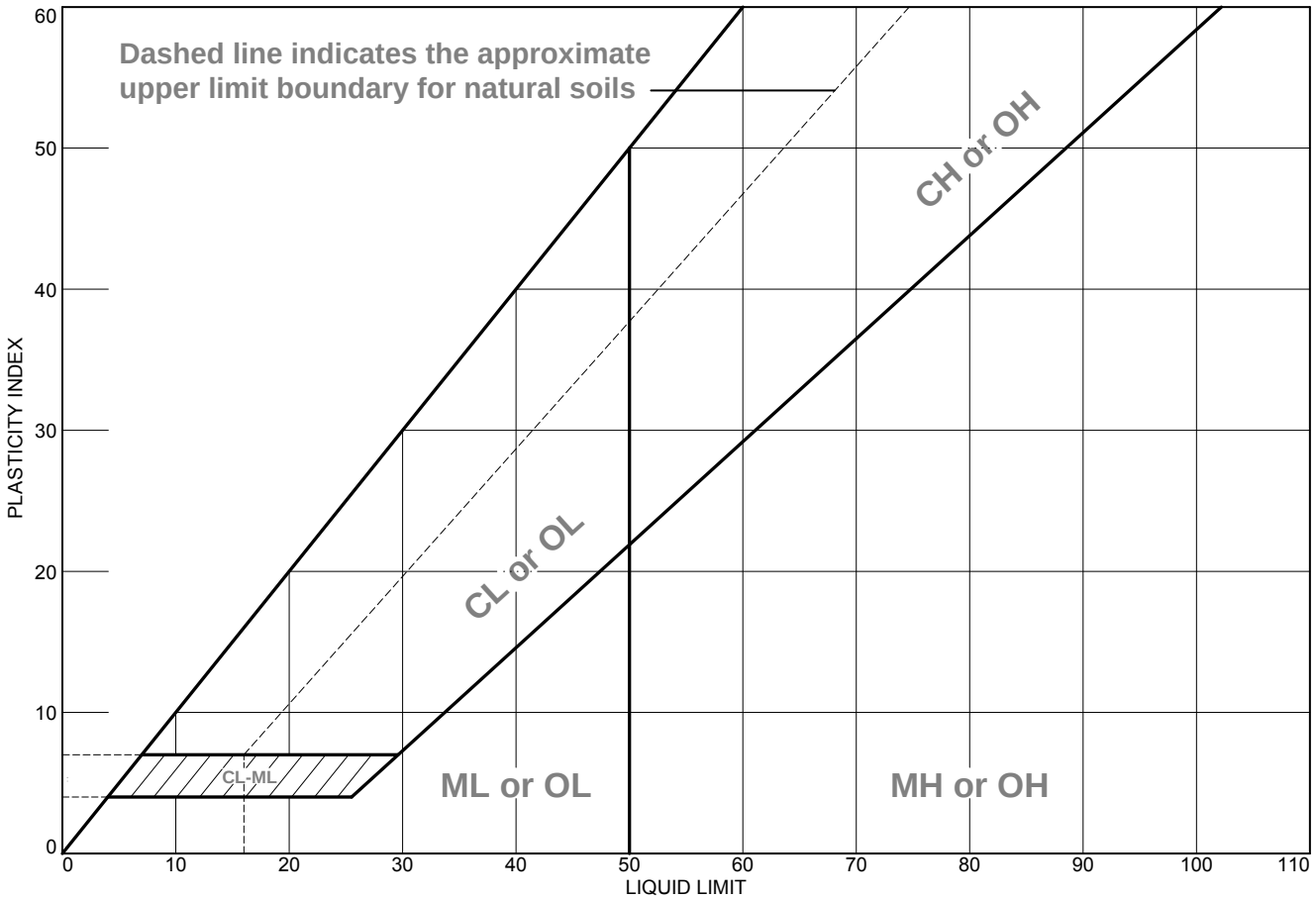
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Well-graded gravel with silt and sand	NV	NP	NP	15.6	7.0	GW-GM

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-07-150623-4.6-5.2

Remarks:

●As received moisture content=1.3%

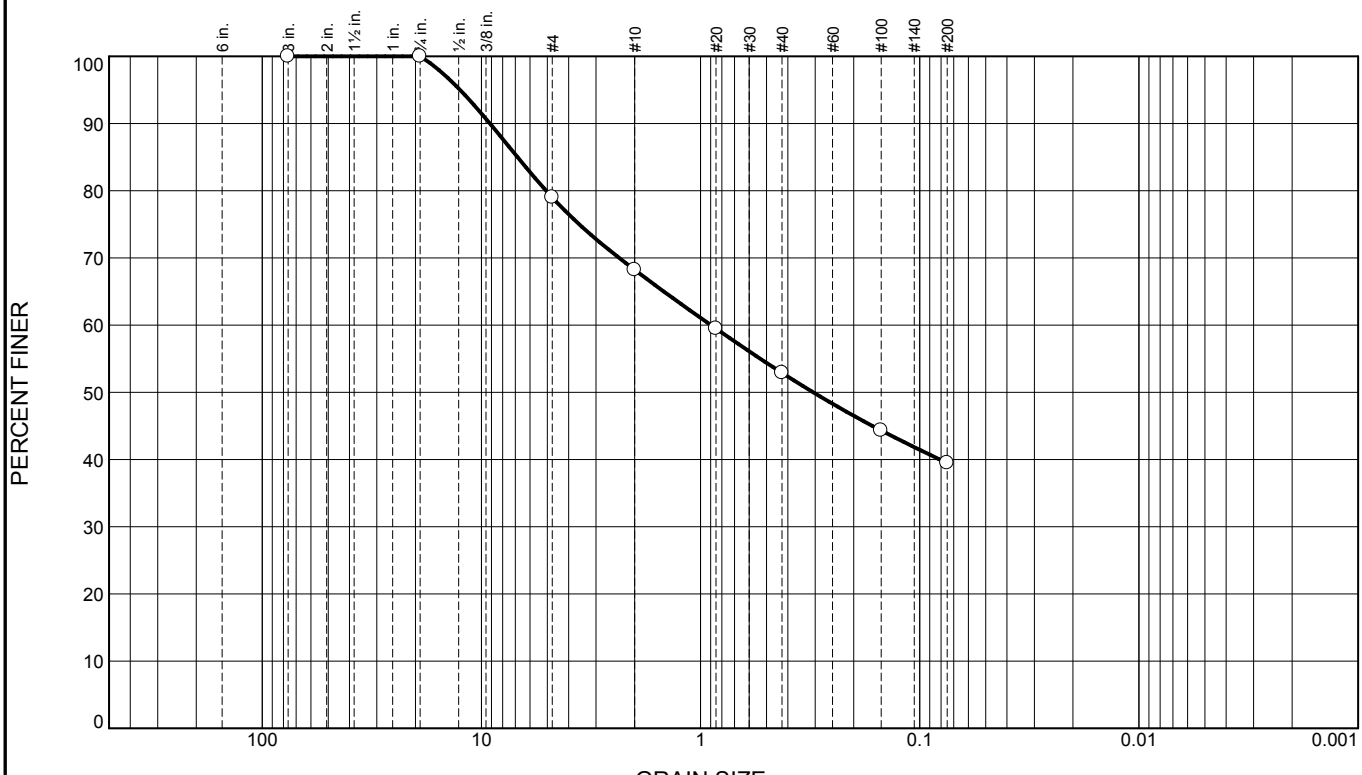
CDM Smith

Boston, Massachusetts

Figure

Tested By: JC **Checked By:** BFM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	21.0	10.8	15.3	13.4	39.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3	100.0		
3/4	100.0		
#4	79.0		
#10	68.2		
#20	59.5		
#40	52.9		
#100	44.3		
#200	39.5		

* (no specification provided)

Material Description

Clayey sand with gravel

Atterberg Limits

PL= 14 LL= 22 PI= 8

Coefficients

D_{90}= 9.1517 D_{85}= 6.8432 D_{60}= 0.8970
D_{50}= 0.3063 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-4(0)

Remarks

As received moisture content=12.1%

Source of Sample: GB-LF2-07-150623-12-13.5

Date: 6/23/2015

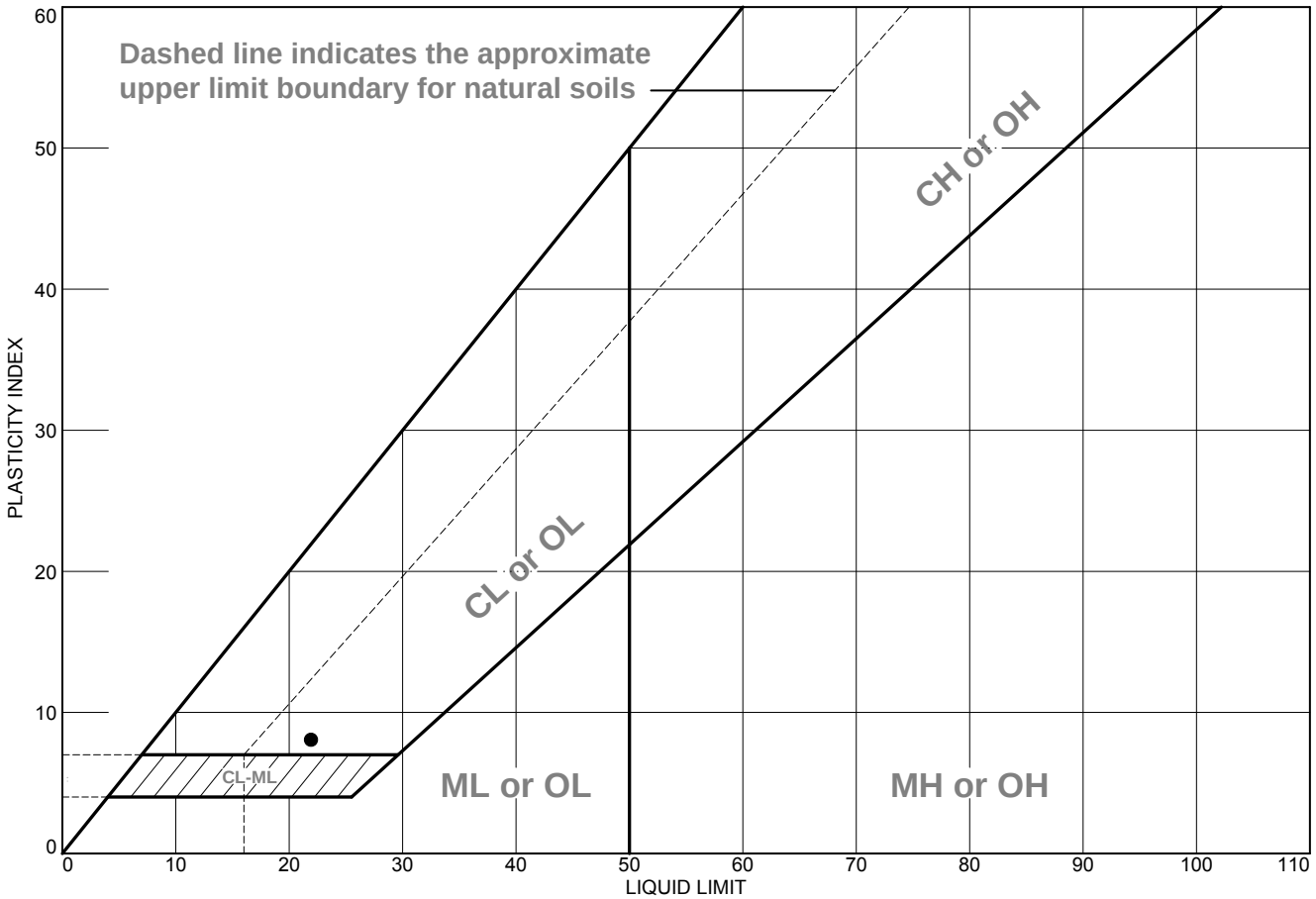
CDM Smith

Boston, Massachusetts

Client: Geosyntec
Project: Orrington Remediation Site. Orrington, ME
Project No: 5000-105855 **Figure**

Tested By: JB **Checked By:** JC

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Clayey sand with gravel	22	14	8	52.9	39.5	SC

Project No. 5000-105855 **Client:** Geosyntec

Project: Orrington Remediation Site. Orrington, ME

●**Source of Sample:** GB-LF2-07-150623-12-13.5

Remarks:

●As received moisture content=12.1%

CDM Smith

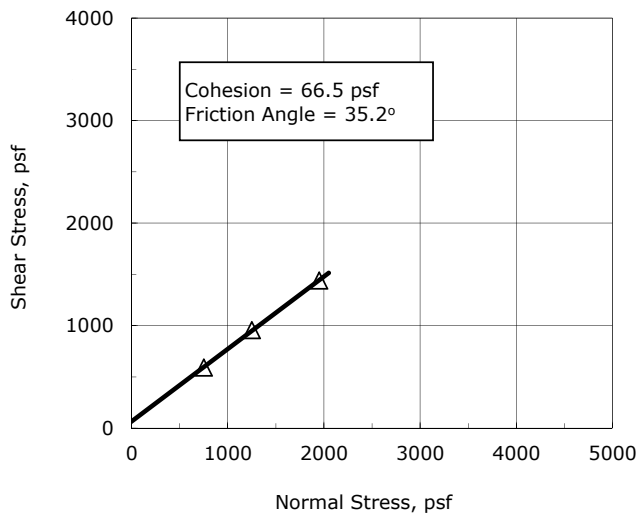
Boston, Massachusetts

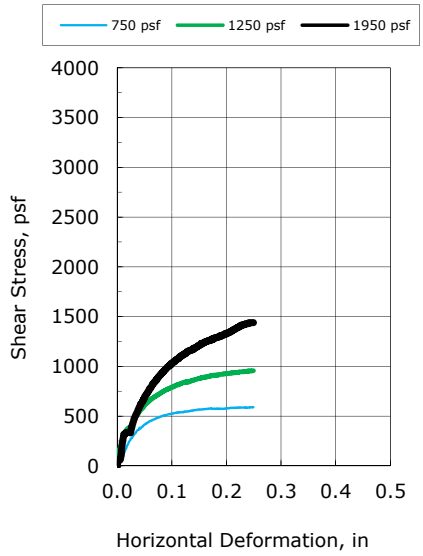
Figure

Tested By: JC **Checked By:** BFM

Client:	CDM Smith
Project Name:	Orrington Remediation Site
Project Location:	Orrington, ME
GTX #:	302787
Test Date:	08/12/15
Tested By:	md
Checked By:	jdt
Boring ID:	---
Sample ID:	GB-LF2-02-150618-4.5-19
Depth, ft:	---
Visual Description:	Moist, gray clay

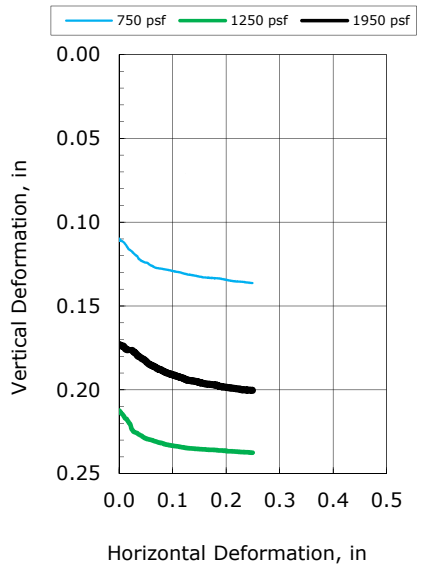
Direct Shear Test of Soils Under Consolidated Drained Conditions by ASTM D3080





Test No.:	DS-34	DS-35	DS-36
Initial Diameter, in:	2.5	2.5	2.5
Initial Height, in:	1.0	1.0	1.0
Initial Mass, grams:	142	142	142
Initial Dry Density, pcf:	96.5	96.5	96.5
Initial Moisture Content, %:	14.0	14.0	14.0
Initial Bulk Density, pcf:	110	110	110
Initial Degree of Saturation:	49.4	49.3	49.3
Initial Void Ratio:	0.78	0.78	0.78
Final Dry Density, pcf:	112	127	121
Final Moisture Content, %:	20.4	16.4	16.5
Final Bulk Density, pcf:	135	147	141
Normal Stress, psf:	750	1250	1950
Maximum Shear Stress, psf:	591	957	1440
Shear Rate, in/min:	0.001	0.001	0.001

Sample Type:	reconstituted
Estimated Specific Gravity:	2.75
Liquid Limit:	---
Plastic Limit:	---
Plasticity Index:	---
% Passing #200 sieve:	---
Soil Classification:	---
Group Symbol:	---



Notes: Material greater than #5 sieve screened out of sample prior to testing

Moisture content obtained before shear from sample trimmings

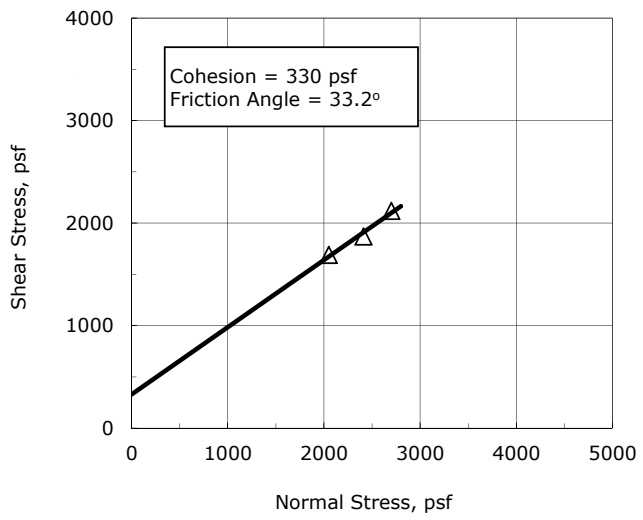
Moisture Content determined by ASTM D2216

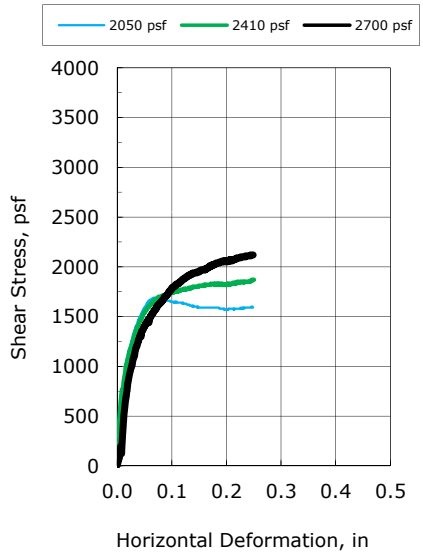
Target Compaction: 110 pcf at the as-received moisture content (values provided by client).
Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

"---" indicates testing required to determine these values was not requested.

Client:	CDM Smith
Project Name:	Orrington Remediation Site
Project Location:	Orrington, ME
GTX #:	302787
Test Date:	08/12/15
Tested By:	md
Checked By:	jdt
Boring ID:	---
Sample ID:	GB-LF2-02-150618-19-44
Depth, ft:	---
Visual Description:	Dry, gray clay

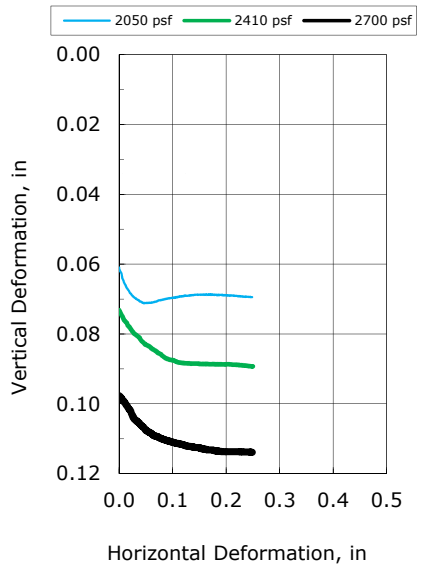
Direct Shear Test of Soils Under Consolidated Drained Conditions by ASTM D3080





Test No.:	DS-31	DS-32	DS-33
Initial Diameter, in:	2.5	2.5	2.5
Initial Height, in:	1.0	1.0	1.0
Initial Mass, grams:	168	168	168
Initial Dry Density, pcf:	119.2	119.1	119.1
Initial Moisture Content, %:	9.1	9.1	9.1
Initial Bulk Density, pcf:	130	130	130
Initial Degree of Saturation:	56.8	56.9	56.9
Initial Void Ratio:	0.44	0.44	0.44
Final Dry Density, pcf:	128.0	130.8	134.5
Final Moisture Content, %:	12.0	12.1	12.1
Final Bulk Density, pcf:	143	147	151
Normal Stress, psf:	2050	2410	2700
Maximum Shear Stress, psf:	1690	1870	2120
Shear Rate, in/min:	0.001	0.001	0.001

Sample Type:	reconstituted
Estimated Specific Gravity:	2.75
Liquid Limit:	---
Plastic Limit:	---
Plasticity Index:	---
% Passing #200 sieve:	---
Soil Classification:	---
Group Symbol:	---



Notes: Material greater than #5 sieve screened out of sample prior to testing

Moisture content obtained before shear from sample trimmings

Moisture Content determined by ASTM D2216

Target Compaction: 130 pcf at the as-received moisture content (values provided by client).
Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

"---" indicates testing required to determine these values was not requested.

APPENDIX F

Drawings

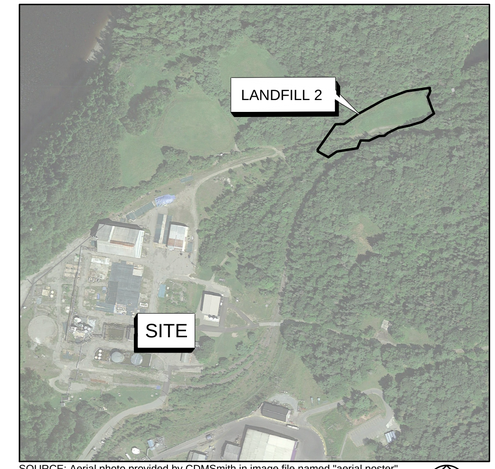
DRAFT

LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE
JANUARY 2016

SOURCE: BY BING MAPS.

VICINITY MAP
NOT TO SCALE

LIST OF DRAWINGS		
DRAWING NO.	DRAWING TITLE	REV.
1	COVER SHEET	
2	GENERAL NOTES AND LEGEND	
3	SITE PLAN	
4	EXISTING CONDITIONS	
5	EROSION CONTROL AND SITE LAYOUT PLAN - SHEET 1	
6	EROSION CONTROL AND SITE LAYOUT PLAN - SHEET 2	
7	SUBSURFACE PROFILES - SHEET 1	
8	SUBSURFACE PROFILES - SHEET 2	
9	CONFIRMATION SAMPLING PLAN	
10	EXCAVATION PLAN	
11	EXCAVATION TABLES	
12	EXCAVATION SEQUENCE AND MONITORING PLAN	
13	FINAL GRADING PLAN	
14	FINAL GRADE PROFILES	
15	SITE RESTORATION AND STABILIZATION PLAN	
16	SEDIMENT AND EROSION CONTROL DETAILS	
17	SITE STABILIZATION DETAILS	
18	MISCELLANEOUS DETAILS	



SOURCE: Aerial photo provided by CDMSmith in image file named "aerial poster"

LOCATION MAP
NOT TO SCALE

PREPARED FOR:

MALLINCKRODT US LLC

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: COVER SHEET

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML		1 OF 18

CMI PLAN

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

T:\Projects_CADD\ORRINGTON\ORRINGTON ME Remediation II\DESIGN\LANDFILL 2\DRAWINGS\BR0292-LF2_CMI-D001 (COVER).dwg Last Edited By: JHTAYLOR

GENERAL NOTES

1. THE SITE IS LOCATED AT 99 INDUSTRIAL WAY, ORRINGTON MAINE 04474.
2. EXISTING TOPOGRAPHY AND SITE FEATURES ARE BASED ON A SURVEY CONDUCTED BY THE JAMES W. SEWALL COMPANY IN 2003 AND PROVIDED IN CDMSMITH DRAWING "38410C_MASTER-SURVEY.DWG". THE HORIZONTAL DATUM IS NAD83 (NORTH AMERICAN DATUM 1983) MAINE STATE PLANE (EAST ZONE) AND THE VERTICAL DATUM IS NAVD 88 (NORTH AMERICAN VERTICAL DATUM 1988).
3. PRE-DESIGN INVESTIGATION LOCATIONS OBTAINED BY CES, INC OF BANGOR MAINE BETWEEN JULY 2015 AND OCTOBER 2015.
4. WETLAND DELINEATION AND CLASSIFICATION OBTAINED FROM CDMSMITH DRAWING "38410_WETLAND_CLASSIFICATIONS.DWG" PROVIDED ON 2015.03.17. WETLAND FLAGGED LOCATIONS OBTAINED BY CES, INC OF BANGOR MAINE BETWEEN THE DATES OF NOVEMBER 12, 2014 AND JANUARY 21, 2015.
5. NORMAL SITE HOURS ARE FROM 07:00 AM TO 05:00 PM MONDAY THROUGH FRIDAY. APPROVAL FROM THE REMEDIATION PROJECT MANAGER IS REQUIRED FOR CONSTRUCTION BEYOND THE NORMAL OPERATING HOURS.
6. LOCATIONS OF UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE.
7. REMEDIATION CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE DESIGNATED LIMITS OF WORK SHOWN ON THE DRAWINGS, UNLESS OTHERWISE APPROVED.
8. REFER TO INDIVIDUAL SHEETS FOR DRAWING-SPECIFIC NOTES.
9. POST-EXCAVATION CONFIRMATION BOTTOM AND SIDEWALL SAMPLING WILL BE PERFORMED AFTER EXCAVATION OF MATERIALS AND IS NOT THE RESPONSIBILITY OF THE REMEDIATION CONTRACTOR.
10. THE STAGING AREA AND ACCESS ROADS SHALL BE INSPECTED BY THE REMEDIATION CONTRACTOR FOR MATERIAL THAT MAY HAVE SPILLED DURING TRANSPORT. SPILLED MATERIAL SHALL BE TRANSPORTED TO THE TEMPORARY SOIL STOCKPILE AREA BY THE REMEDIATION CONTRACTOR FOR DISPOSAL OFF-SITE.
11. THE RAIL LOADING AREA WILL BE INSPECTED DAILY BY THE REMEDIATION PROJECT MANAGER FOR SPILLED MATERIAL. SPILLED MATERIAL SHALL BE TRANSPORTED TO THE TEMPORARY SOIL STOCKPILE AREA BY THE REMEDIATION PROJECT MANAGER FOR DISPOSAL OFF-SITE.
12. THE REMEDIATION CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND RELOCATE AS NECESSARY THE BYPASS PIPE TO COMPLETE EXCAVATON.

SEQUENCE OF WORK LANDFILL 2 AND ADJACENT SOUTHERLY STREAM AREA MATERIAL REMOVAL

THIS SEQUENCE OF WORK IS INTENDED TO DESCRIBE THE OVERALL CONSTRUCTION PROJECT AND A GENERAL SEQUENCE OF ACTIVITIES. UNLESS OTHERWISE NOTED, IT IS NOT INTENDED TO ESTABLISH A RIGID OR REQUIRED CONSTRUCTION SEQUENCE.

SITE PREPARATION

1. THE REMEDIATION CONTRACTOR SHALL VERIFY THE TYPE AND LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF WORK PRIOR TO THE START OF WORK, ESTABLISH SURVEY CONTROL, AND VERIFY EXISTING CONDITIONS SHOWN ON THE PLANS ARE ACCURATE. CONTACT DIGSAFE (811 OR 1-888-340-7233). UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE.
2. ERECT EROSION AND SEDIMENT CONTROLS AT LOCATIONS AS SHOWN ON DRAWINGS.
3. PERFORM CLEARING AND GRUBBING ACTIVITIES WHERE NECESSARY WITHIN THE LIMIT OF WORK. REMEDIATION CONTRACTOR SHALL ONLY CLEAR AND GRUB AREAS NECESSARY FOR THE WORK, AND IMMEDIATELY PRIOR TO THE WORK COMMENCING IN THE AREA TO BE CLEARED AND GRUBBED.
4. CONSTRUCT GRAVEL ACCESS ROADS AS INDICATED ON DRAWINGS. THE REMEDIATION CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING GRAVEL ACCESS ROADS AND STAGING AREA THROUGHOUT CONSTRUCTION.
5. ESTABLISH AND MAINTAIN APPROPRIATE SUPPORT, CONTAMINATION REDUCTION AND EXCLUSION ZONES IN ACCORDANCE WITH THE REMEDIATION CONTRACTOR'S HASP
6. CONSTRUCT DECONTAMINATION PAD FOR EQUIPMENT.
7. ALL CONTACT STORMWATER AND/OR GROUNDWATER FROM WITHIN THE EXCAVATION AREA SHALL BE COLLECTED, STORED TEMPORARILY, TREATED AND TRANSFERRED TO THE GROUNDWATER TREATMENT PLANT. REMEDIATION CONTRACTOR SHALL PROVIDE ESTIMATED GROUNDWATER CONDITIONS AND MAINTAIN SUFFICIENT STORAGE CAPACITY BASED ON DESIGN STORM INFORMATION AND GROUNDWATER TREATMENT PLANT CAPACITY.
8. INSTALL SHEET PILE WALL AS INDICATED ON DRAWINGS IN ORDER TO CONTROL THE INFILTRATION OF GROUNDWATER INTO THE EXCAVATION
9. THE REMEDIATION CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONTACT WATER IS CONTAINED AND DOES NOT FLOW OUTSIDE OF THE EXCAVATION. ADDITIONAL CONTROLS, BEYOND THOSE SHOWN IN THIS DRAWING SET, MAY BE NECESSARY TO CONTROL CONTACT WATER AND MINIMIZE RUN-ON TO THE EXCAVATION AREA.
10. MATERIALS REMOVED FROM WITHIN THE "LIMITS OF SOIL REQUIRING OFF-SITE DISPOSAL" DURING CONSTRUCTION ACTIVITIES, INCLUDING CLEARING AND GRUBBING AND EXCAVATION MATERIALS,WITH THE EXCEPTION OF "CLEAN INTERVALS" IDENTIFIED ON THE DRAWINGS, WILL BE DIRECT LOADED INTO RAIL CARS AS INDICATED ON THE DRAWINGS OR TRANSPORTED AND STOCKPILED AT THE TEMPORARY SOIL STOCKPILE AREA UNTIL DISPOSED OF AT AN OFF-SITE LOCATION. MATERIALS SHOULD BE SEGREGATED INTO SEPARATE STOCKPILES (E.G., CLEARING AND GRUBBING MATERIALS AND CLEAN EXCAVATED SOILS SHALL NOT BE MIXED WITH IMPACTED EXCAVATED SOILS).

EXCAVATION

11. EXCAVATE LANDFILL 2 AND ADJACENT SOUTHERLY STREAM MATERIALS WITHIN LIMITS OF EXCAVATION AND ACCORDING TO SURVEY CONTROL POINTS IDENTIFIED IN THE DRAWINGS. BETWEEN LOCATIONS, THE CONTRACTOR SHALL EXCAVATE TO SAFE AND STABLE GRADES.
12. THE EXCAVATION SHALL BE CONDUCTED IN A MINIMUM OF THREE PHASES AS INDICATED ON THE DRAWINGS.
13. COLLECT CONTACT STORMWATER AND PERFORM DEWATERING OF THE EXCAVATION AREA AS NECESSARY DURING EXCAVATION. STORE, TREAT (IF NECESSARY) AND DISPOSE OF CONTACT STORMWATER AND/OR GROUNDWATER AS NECESSARY VIA THE GROUNDWATER TREATMENT PLANT. WATER MANAGEMENT MEASURES SHALL BE IMPLEMENTED BY THE REMEDIATION CONTRACTOR TO MEET INFLUENT REQUIREMENTS SET BY THE GROUNDWATER TREATMENT PLANT.
14. VEHICLES EXITING THE LANDFILL 2 AREA MUST BE DECONTAMINATED ON THE DECONTAMINATION PAD. WATER COLLECTED IN THE DECONTAMINATION PAD MUST BE TREATED AS CONTACT WATER AND TREATED AT THE GROUNDWATER TREATMENT PLANT. WATER IN THE DECONTAMINATION PAD MUST BE REMOVED PRIOR TO OVERTOPPING THE DECONTAMINATION PAD CONTAINMENT BERMS.
15. DURING EXCAVATION ACTIVITIES CONSTRUCTION PERSONNEL AND THE REMEDIATION PROJECT MANAGER WILL VISUALLY INSPECT FOR ELEMENTAL MERCURY. IF ELEMENTAL MERCURY IS OBSERVED, THE REMEDIATION PROJECT MANAGER SHALL BE NOTIFIED AND THE MATERIAL SHALL BE SEGRATED SEPARATELY FOR DISPOSAL AT AN APPROVED FACILITY.
16. OPEN EXCAVATION SHALL BE SURROUNDED BY ORANGE PLASTIC SAFETY FENCE AT THE END OF EACH WORK DAY.
17. THE REMEDIATION PROJECT MANAGER WILL PERFORM CONFIRMATION SAMPLING FOR SITE CONTAMINANTS OF CONCERN (COCS) AT LOCATIONS INDICATED ON THE DRAWINGS. REMEDIATION CONTRACTOR SHALL COOPERATE WITH AND SUPPORT THE SAMPLING ACTIVITIES.
18. SITE COCS AND REPRESENTATIVE MEDIA PROTECTION STANDARDS (MPS) ARE PRESENTED IN TABLE 1:

Table 1: Soil Media Protection Standards – Numeric

	Soil
	(mg/kg)
Mercury	2.2
Chloropicrin	0.125
PCBs	1.0
Cadmium	8
Ethylbenzene	13
Xylene	190

19. REMEDIATION CONTRACTOR SHALL CONDUCT AN AS-BUILT SURVEY OF THE VERTICAL AND LATERAL LIMITS OF THE EXCAVATION AND CONFIRMATION SAMPLE LOCATIONS.
20. IF ANY CONFIRMATION SAMPLES EXCEED THE MPS THEN ADDITIONAL EXCAVATION WILL BE PERFORMED IN THE AREA OF THE EXCEEDANCE AND STEPS 15 AND17 REPEATED.
21. EXCAVATE ADDITIONAL MATERIALS TO MEET FINAL GRADES, WHERE APPLICABLE.
22. REMEDIATION CONTRACTOR SHALL REMOVE DECONTAMINATION PAD AT THE COMPLETION OF EXCAVATION ACTIVITIES. DECONTAMINATION PAD MATERIALS SHALL BE TRANSPORTED TO THE TEMPORARY SOIL STOCKPILE AREA FOR DISPOSAL OFF SITE.

SITE RESTORATION

23. GRADE AND SHAPE THE LANDFILL 2 AREA ACCORDING TO THE FINAL GRADING PLAN. REMEDIATION CONTRACTOR IS RESPONSIBLE FOR PLACING FILL MATERIALS AND ADDITIONAL EXCAVATION REQUIRED TO MEET THE FINAL GRADING PLAN IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
24. THE SOUTHERLY STREAM SHALL BE BACKFILLED TO WITHIN 2 FEET OF THE EXISTING GRADE AND WILL BE RESTORED AS PART OF THE SOUTHERLY STREAM CMI.
25. THE DECONTAMINATION PAD AND STAGING AREAS SHALL BE RESTORED BY GRADING TO PROMOTE POSITIVE STORMWATER FLOW TOWARDS THE SOUTHERLY STREAM AND PLACEMENT OF A MINIMUM OF 6-INCHES OF TOPSOIL AND SEEDING.
26. ACCESS ROADWAYS AND TEMPORARY SOIL STOCKPILE AREAS ARE TO REMAIN IN PLACE AT THE COMPLETION OF WORK AS SHOWN ON THE DRAWINGS.
27. PLACE TOPSOIL AND SEED IN DISTURBED AREAS.
28. MAINTAIN AND LEAVE EROSION CONTROL MEASURES IN PLACE UNTIL VEGETATION HAS BEEN RESTORED AND AS DIRECTED BY THE REMEDIATION PROEJCT MANAGER.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND MULCH. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE.
4. PERMANENT VEGETATION SHALL BE SEEDED ON ALL EXPOSED AREAS WITHIN FIFTEEN DAYS AFTER FINAL GRADING. MULCH AND TACKIFIER OR EROSION CONTROL BLANKET SHALL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
5. A SUB-BASE COURSE SHALL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING OF TRAVEL AREAS AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ACCESS ROADWAYS.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING OF CRITICAL AREAS SUBJECT TO EROSION (I.E.; STEEP SLOPES) THESE AREAS SHALL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH, EROSION CONTROL BLANKET, OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE.
7. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL BE REQUIRED.
8. THE SOUTHERLY STREAM BYPASS WILL BE LEFT IN PLACE THROUGHOUT AND AFTER CONSTRUCTION. THE REMEDIATION CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE, MANAGEMENT AND REPAIR OF THE SYSTEM DURING CONSTRUCTION. THE REMEDIATION PROJECT MANAGER WILL MANAGE THE SYSTEM AFTER THE COMPLETION OF LANDFILL 2 WORK.
9. ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED EROSION AND SEDIMENT CONTROL PLANS TO THE REMEDIATION PROJECT MANAGER.
10. THE REMEDIATION CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN FROM TRACK-OUT OF IMPACTED MATERIAL DURING ENTIRE OF CONSTRUCTION PROJECT.
11. THE REMEDIATION CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE REMEDIATION PROJECT MANAGER.

25' WIDE 2-WAY GRAVEL ACCESS ROAD — CALLOUT LABELS WITHOUT BOX ARE EXISTING SITE FEATURES

25' WIDE 2-WAY GRAVEL ACCESS ROAD — CALLOUT LABELS WITH A BOX AROUND THE LABEL ARE PROPOSED SITE FEATURES

DRAWING LABEL/CALLOUT LEGEND

DETAIL NUMBER (4) / SHEET ON WHICH ABOVE DETAIL IS PRESENTED (6)

DETAIL NUMBER (4) / SHEET ON WHICH ABOVE DETAIL WAS FIRST REFERENCED (3) — DETAIL TITLE OF DETAIL, SCALE: 1"=2'

EXAMPLE: DETAIL NUMBER 4 PRESENTED ON SHEET NO. 6 WAS REFERENCED FOR THE FIRST TIME ON SHEET NO.3.

ABOVE SYSTEM ALSO APPLIES TO SECTION IDENTIFICATIONS.

DETAIL IDENTIFICATION LEGEND

LEGEND

PROPERTY LINE
FENCE LINE
RAILROAD
EXISTING GROUND ELEVATION (FEET)
APPROXIMATE LIMIT OF LANDFILL
UTILITY POLE LOCATION
INDUSTRIAL SEWER MANHOLE
INDUSTRIAL SEWER PIPE
WL — WETLAND DELINEATION
MW-411-B1 — HISTORIC MONITORING WELL/SOIL BORING
SB-LF2 — PRE-DESIGN SOIL BORING
TP-LF2 — PRE-DESIGN TEST PIT
SURFACE WATER FLOW
TRAILER
INLET TO GROUNDWATER TREATMENT PLANT
TS-SS — STREAM TRANSECT SAMPLE LOCATION
PRE-EXCAVATION SIDEWALL SAMPLE (MERCURY CONCENTRATIONS ARE BELOW THE MPS AT EACH INTERVAL)
PRE-EXCAVATION BOTTOM SAMPLE
POST-EXCAVATION BOTTOM SAMPLE
POST-EXCAVATION SIDE WALL SAMPLE (1 INTERVAL)

LIMIT OF WORK
LIMIT OF FINAL GRADING
LIMIT OF LANDFILL 2 MATERIAL REMOVAL AREA
30 — PROPOSED FINAL GRADE ELEVATION (FEET)
PROPOSED BOTTOM SAMPLE
ACCESS ROAD
ACCESS ROAD WITH 2-INCH BINDER
TEMPORARY SOIL STOCKPILE AREA
RAIL LOADING AREA
SF — SILT FENCE
LF2 — PROPOSED EXCAVATION AREA IDENTIFICATION / BOUNDARY
PRELIMINARY EXCAVATION SURFACE MODIFICATIONS, DEPENDENT ON PROPOSED SOIL BORING RESULTS
BYPASS PIPE
SHEET PILE ALIGNMENT
BOUNDARY OF LANDFILL 2 RESTORATION
AREA TO BE RESTORED DURING SOUTHERLY STREAM CMI/INTERIM GRADING
XXX — FIBER ROLL
AREA OF EROSION CONTROL BLANKET AND PERMANENT SEED MIX

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith — Geosyntec consultants

TITLE: GENERAL NOTES AND LEGEND

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	2 OF 18
APPROVED BY:	SML		

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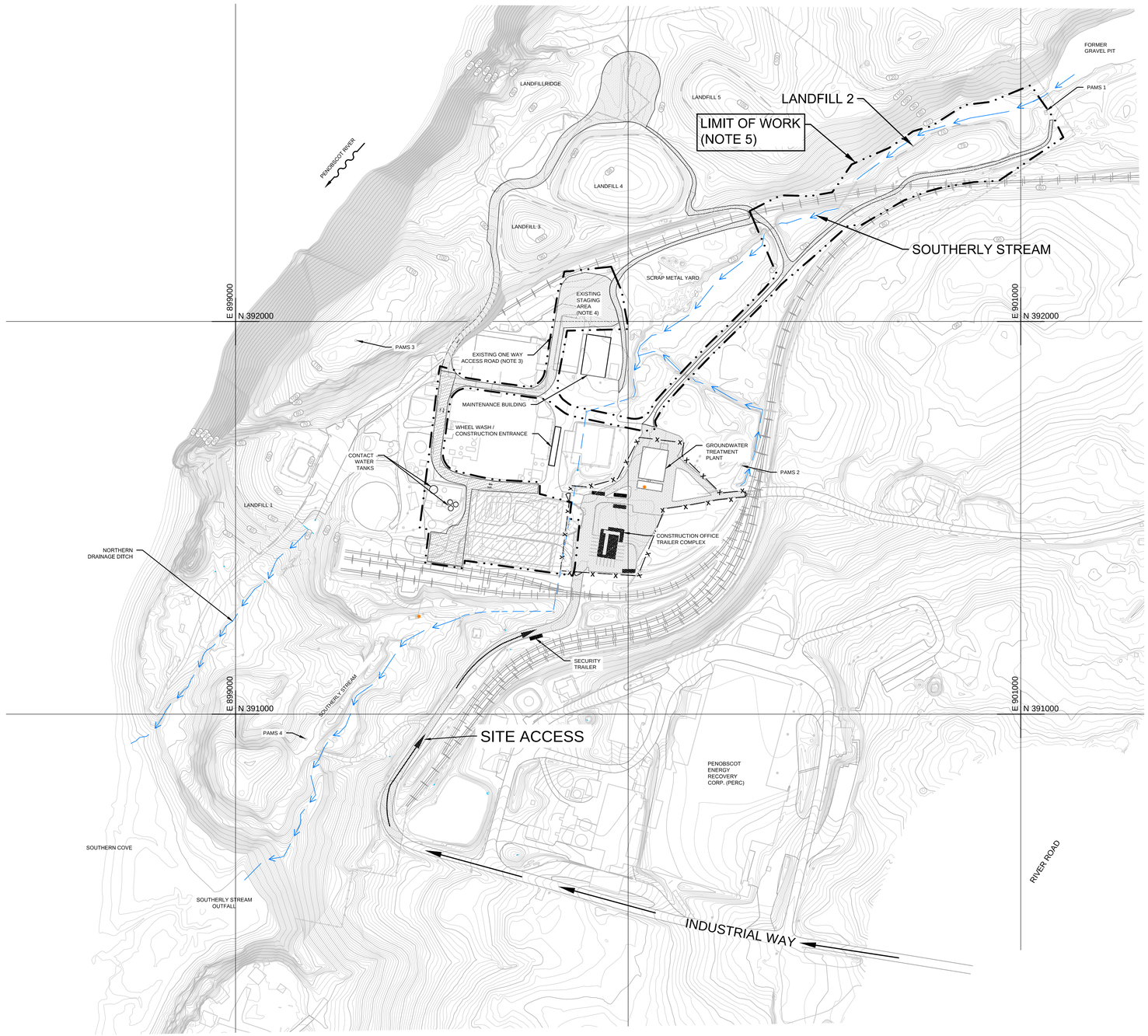

LEGEND

- FENCE LINE
- RAILROAD
- EXISTING GROUND ELEVATION (FEET)
- APPROXIMATE LIMIT OF LANDFILL
- INDUSTRIAL SEWER PIPE
- SURFACE WATER FLOW
- TRAILER
- INLET TO GROUNDWATER TREATMENT PLANT
- LIMIT OF WORK
- EXISTING ACCESS ROAD
- ACCESS ROAD WITH 2-INCH BINDER
- TEMPORARY SOIL STOCKPILE AREA
- PAMS — PERMANENT AIR MONITORING STATION

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND .
2. CURRENT SITE STRUCTURES INCLUDE MAINTENANCE BUILDING, GROUNDWATER TREATMENT PLANT AND CONSTRUCTION TRAILERS. ALL OTHER BUILDINGS HAVE BEEN DEMOLISHED, HOWEVER FOUNDATIONS REMAIN IN-PLACE.
3. ACCESS ROADS AND STAGING AREAS SHOWN ON DRAWING TO BE CONSTRUCTED AS PART OF OTHER CMIs.
4. EXISTING STAGING AREA TO BE CONSTRUCTED AS PART OF SCRAP METAL YARD CMI.
5. LIMIT OF WORK DEFINES EXTENT TO WHICH REMEDIATION CONTRACTOR WILL BE PERFORMING ACTIVITIES. EXCAVATION LIMITS ARE SHOWN ON DRAWING NO. 9.

N

0 150' 300'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: SITE PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	3 OF 18
APPROVED BY:	SML		

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

(1in) (2in) (3in) (4in)

(1in) (2in) (3in)

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LEGEND

⌀	UTILITY POLE LOCATION
WL	WETLAND DELINEATION LINE
SB-LF2-01	PRE-DESIGN SOIL BORING
TP-LF2-02	PRE-DESIGN TEST PIT
TS-SS-A1	STREAM TRANSECT SAMPLE LOCATION
GB-LF2-01	PRE-DESIGN GEOTECHNICAL BORING
	BY-PASS PIPE
	FENCE LINE
A / 7	PROFILE ALIGNMENT LOCATION TOP LETTER REFERS TO SECTION IDENTIFICATION BOTTOM NUMBER REFERS TO FIRST SHEET IN SET PROFILE CAN BE FOUND

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. BYPASS INLET STRUCTURE AND BYPASS PIPE INSTALLED PRIOR TO BEGINNING WORK

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: EXISTING CONDITIONS

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
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APPROVED BY:	SML		

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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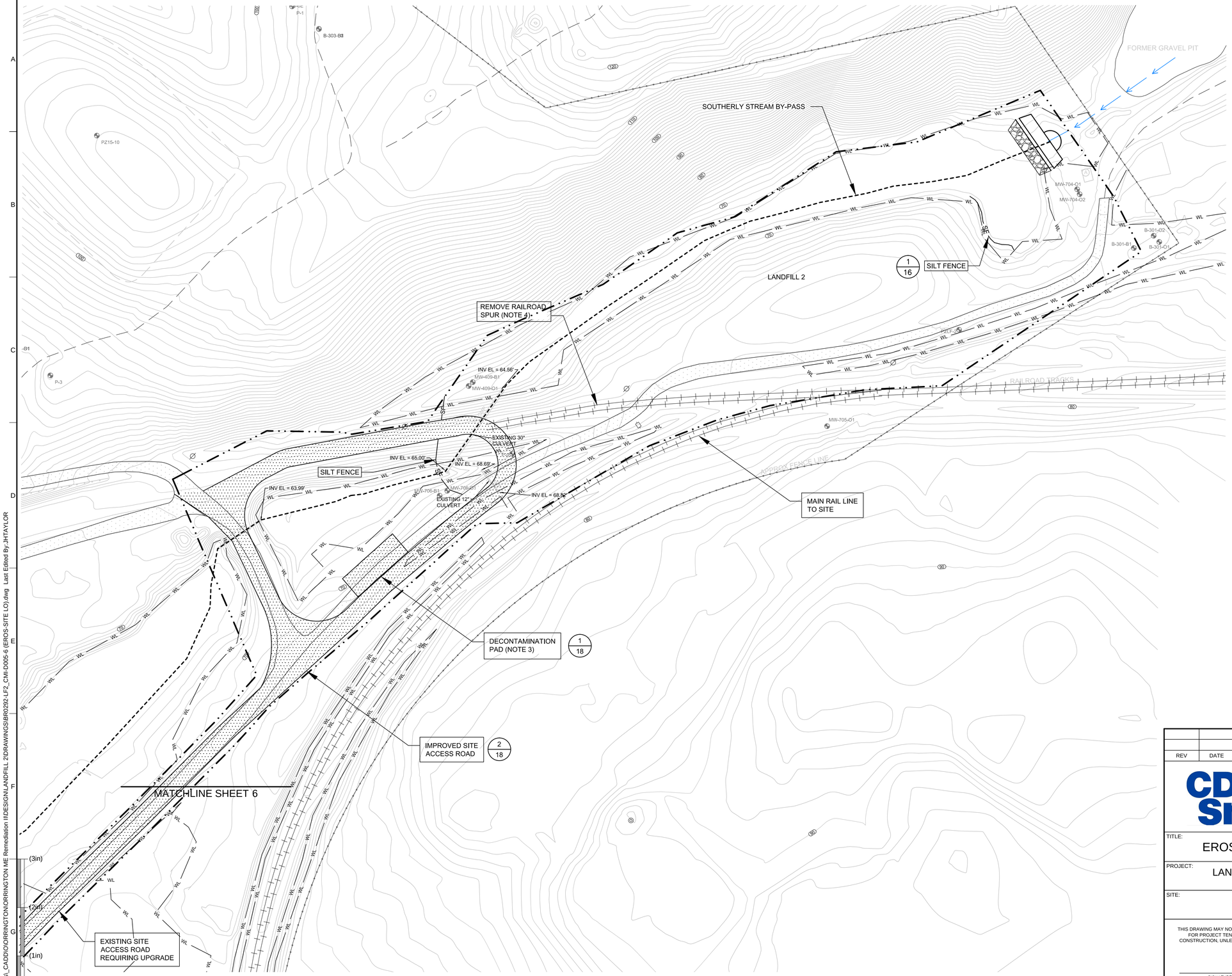

LEGEND

SF — PROPOSED SILT FENCE

IMPROVED SITE ACCESS ROAD/DECONTAMINATION PAD

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND..
2. DURING CONSTRUCTION CONTACT STORMWATER FROM WITHIN THE EXCAVATION AREAS SHALL BE COLLECTED AND STORED TEMPORARILY AND TRANSFERRED TO ON-SITE GROUNDWATER TREATMENT PLANT. CONTRACTOR SHALL CONFIRM SUFFICIENT STORAGE CAPACITY BASED ON DESIGN STORM.
3. LOCATION OF DECONTAMINATION PAD WILL BE DETERMINED BY THE REMEDIATION CONTRACTOR AND AS APPROVED BY THE REMEDIATION PROJECT MANAGER.
4. REMOVE RAILROAD SPUR WITHIN LIMITS OF WORK AS REQUIRED TO SUPPORT CONSTRUCTION OF ACCESS ROAD AND DURING PHASE 2 OF THE EXCAVATION. REMEDIATION CONTRACTOR SHALL LEAVE A MINIMUM OF 150 LF OF RAILROAD SPUR IN PLACE TO SUPPORT DIRECT LOADING OF RAIL CARS DURING THE PHASE 1 EXCAVATION. RAIL ROAD MATERIAL REMOVED SHALL BE PLACED IN THE TEMPORARY STOCKPILE AREA.

N

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: EROSION CONTROL AND SITE LAYOUT PLAN - SHEET 1

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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DRAWN BY:	JHT	PROJECT NO.:	BR0292
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CMI PLAN

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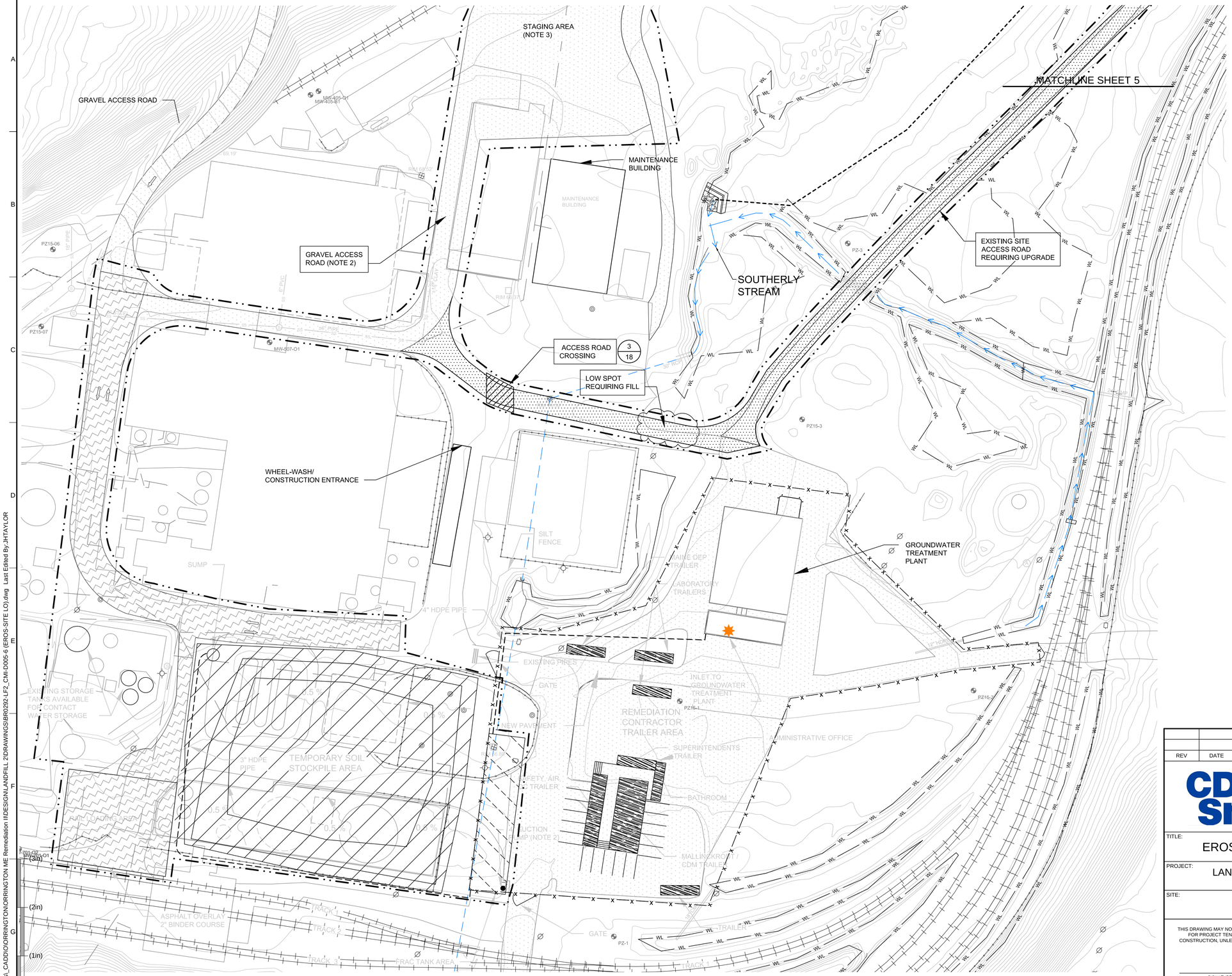

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. ACCESS ROAD TO BE CONSTRUCTED AS PART OF SCRAP METAL YARD CMI.
3. EXISTING STAGING AREA TO BE CONSTRUCTED AS PART OF SCRAP METAL YARD CMI.

N

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE:
EROSION CONTROL AND SITE LAYOUT PLAN - SHEET 2

PROJECT:
LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE:
ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
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APPROVED BY:	SML		6 OF 18

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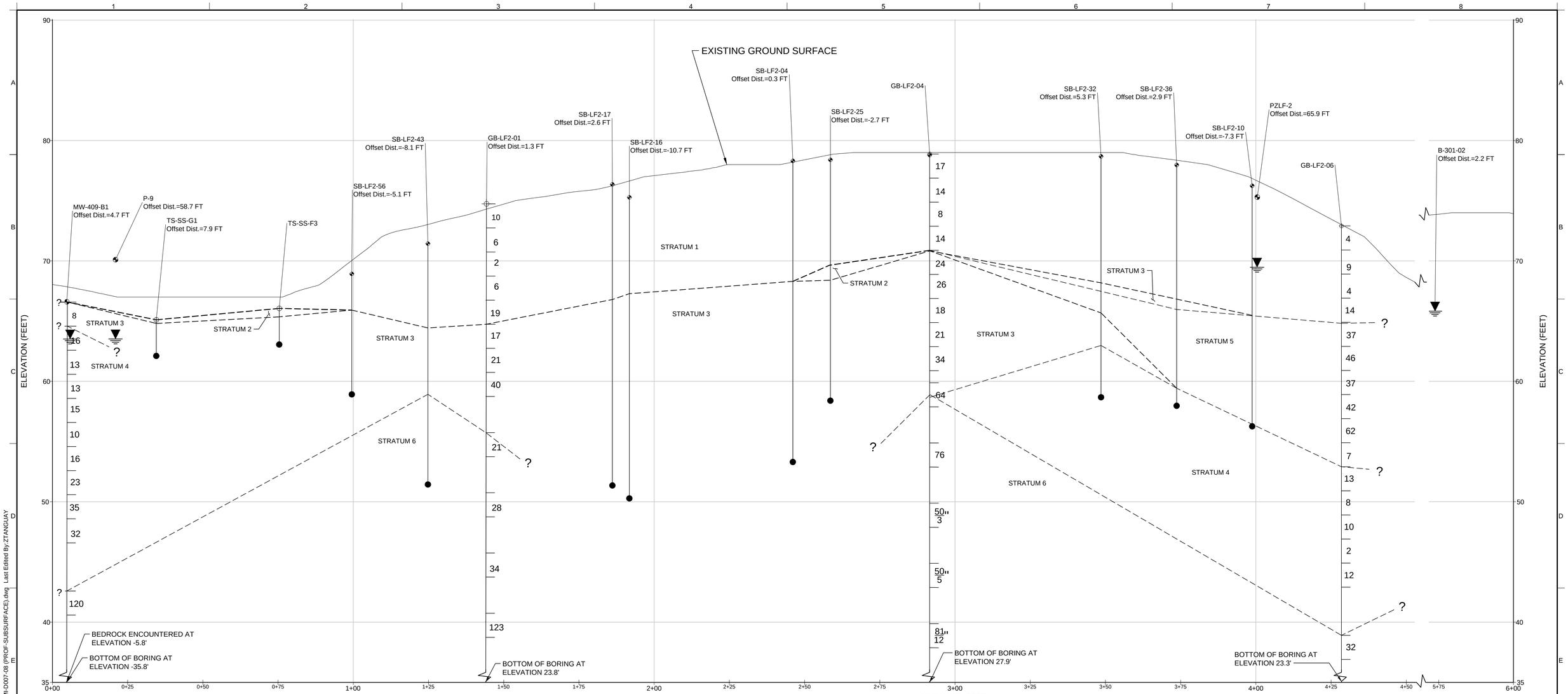

A / 7 PROFILE
SUBSURFACE PROFILE - A

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. STRATUM DEFINITIONS:
   STRATUM 1 = FILL
   STRATUM 2 = PEAT/ORGANICS LAYER
   STRATUM 3 = CLAY AND SILT LAYERS
   STRATUM 4 = SAND LAYER
   STRATUM 5 = GRAVEL LAYER
   STRATUM 6 = TILL LAYER
   STRATUM 7 = BEDROCK
3. TOP OF STRATUM ELEVATIONS BELOW GROUND SURFACE SHOWN ARE APPROXIMATE, AND BASED ON THE ELEVATIONS RECORDED ON THE BORING LOGS. PROFILES ARE BASED ON LINEAR INTERPOLATION BETWEEN DATA POINTS; SUBSURFACE CONDITIONS CAN CHANGE BETWEEN POINTS.
4. GROUNDWATER LEVELS SHOWN WERE MEASURED BETWEEN JULY 29, 2015 AND AUGUST 3, 2015 AND OFTEN FLUCTUATE BASED ON SEASONAL AND CLIMATE CONDITIONS. REMEDIATION CONTRACTOR SHALL CONFIRM GROUNDWATER LEVELS PRIOR TO BEGINNING WORK.
5. SPT N VALUE IS THE NUMBER OF BLOWS WITH A 140 LB HAMMER PER 12 INCHES OF PENETRATION.

LEGEND

- TOP OF STRATUM
- 50 BOREHOLE AND SPT N VALUE
- GROUNDWATER

(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith
Geosyntec consultants

TITLE: SUBSURFACE PROFILES - SHEET 1

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML		7 OF 18

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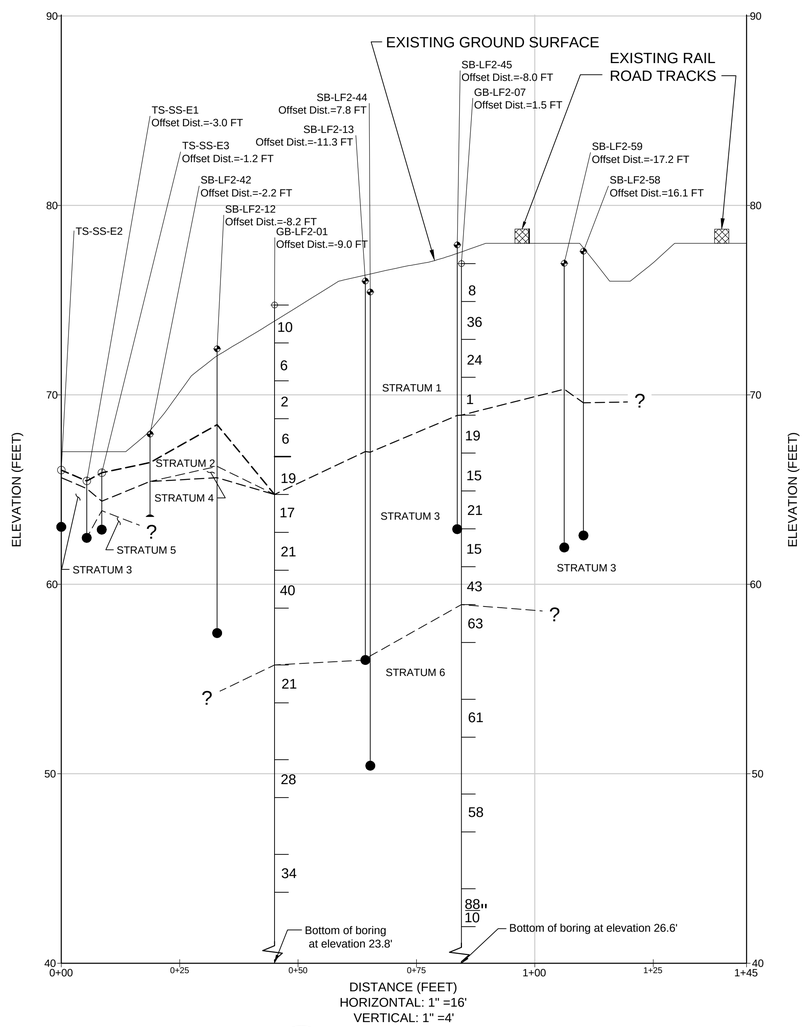
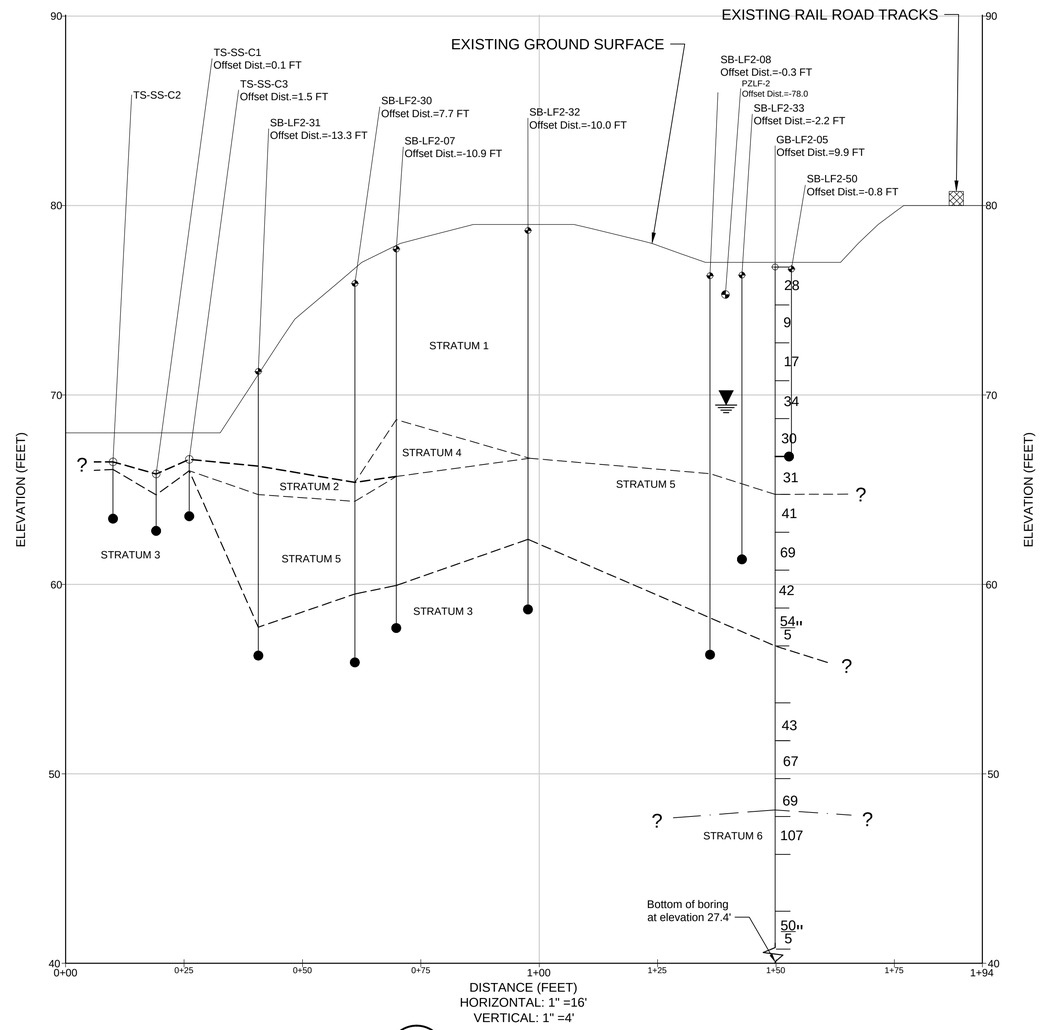


B / 4 PROFILE
SUBSURFACE PROFILE - B



C / 4 PROFILE
SUBSURFACE PROFILE - C

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. STRATUM DEFINITIONS:
   STRATUM 1 = FILL
   STRATUM 2 = PEAT/ORGANICS LAYER
   STRATUM 3 = CLAY AND SILT LAYERS
   STRATUM 4 = SAND LAYER
   STRATUM 5 = GRAVEL LAYER
   STRATUM 6 = TILL LAYER
   STRATUM 7 = BEDROCK
3. TOP OF STRATUM ELEVATIONS BELOW GROUND SURFACE SHOWN ARE APPROXIMATE, AND BASED ON THE ELEVATIONS RECORDED ON THE BORING LOGS. PROFILES ARE BASED ON LINEAR INTERPOLATION BETWEEN DATA POINTS; SUBSURFACE CONDITIONS CAN CHANGE BETWEEN POINTS.
4. GROUNDWATER LEVELS SHOWN WERE MEASURED BETWEEN JULY 29, 2015 AND AUGUST 3, 2015 AND OFTEN FLUCTUATE BASED ON SEASONAL AND CLIMATE CONDITIONS. REMEDIATION CONTRACTOR SHALL CONFIRM GROUNDWATER LEVELS PRIOR TO BEGINNING WORK.
5. SPT N VALUE IS THE NUMBER OF BLOWS WITH A 140 LB HAMMER PER 12 INCHES OF PENETRATION.

LEGEND

- TOP OF STRATUM
- 50 BOREHOLE AND SPT N VALUE
- GROUNDWATER

(3in) (2in) (1in)
(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith
Geosyntec consultants

TITLE: SUBSURFACE PROFILES - SHEET 2

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

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DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML		8 OF 18

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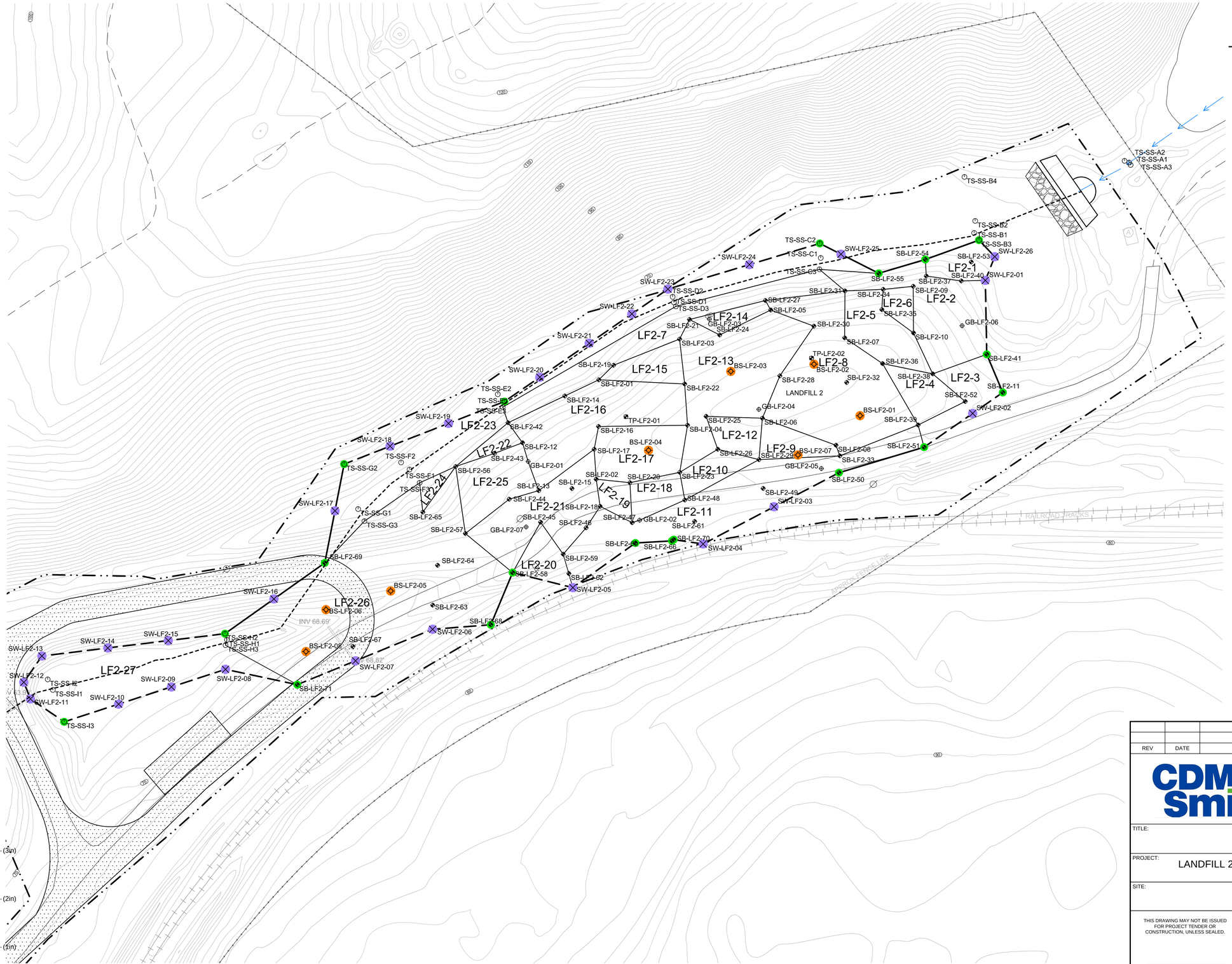

CMI PLAN

LEGEND

- PRE-EXCAVATION SIDEWALL SAMPLE (MERCURY CONCENTRATIONS ARE BELOW THE MPS AT EACH INTERVAL)
- PRE-EXCAVATION BOTTOM SAMPLE
- POST-EXCAVATION BOTTOM SAMPLE
- POST-EXCAVATION SIDE WALL SAMPLE (1 INTERVAL)

BOTTOM SAMPLE AND SIDEWALL SAMPLE SUMMARY TABLE

LOCATION ID	Northing (USSurveyFoot)	Easting (USSurveyFoot)
BS-LF2-01	392420.20	900895.60
BS-LF2-02	392452.24	900866.91
BS-LF2-03	392447.78	900815.09
BS-LF2-04	392398.65	900763.85
BS-LF2-05	392311.04	900603.25
BS-LF2-06	392299.44	900562.94
BS-LF2-07	392395.73	900856.91
BS-LF2-08	392273.35	900550.47
SW-LF2-01	392504.43	900973.62
SW-LF2-02	392421.62	900965.73
SW-LF2-03	392363.51	900842.02
SW-LF2-04	392340.34	900797.84
SW-LF2-05	392313.16	900716.70
SW-LF2-06	392287.24	900629.38
SW-LF2-07	392267.58	900581.35
SW-LF2-08	392262.29	900500.36
SW-LF2-09	392251.34	900466.69
SW-LF2-10	392240.64	900433.78
SW-LF2-11	392243.85	900378.89
SW-LF2-12	392254.23	900374.73
SW-LF2-13	392270.58	900386.01
SW-LF2-14	392275.59	900427.08
SW-LF2-15	392280.18	900464.71
SW-LF2-16	392306.10	900530.53
SW-LF2-17	392360.96	900568.56
SW-LF2-18	392401.20	900602.87
SW-LF2-19	392415.40	900639.27
SW-LF2-20	392444.15	900696.13
SW-LF2-21	392465.32	900726.93
SW-LF2-22	392483.56	900753.45
SW-LF2-23	392499.00	900775.90
SW-LF2-24	392514.26	900826.65
SW-LF2-25	392520.74	900883.72
SW-LF2-26	392519.18	900979.47

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: CONFIRMATION SAMPLING PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

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DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
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REVIEWED BY:	DTD/CMG	DRAWING NO.:	9 OF 18
APPROVED BY:	SML		

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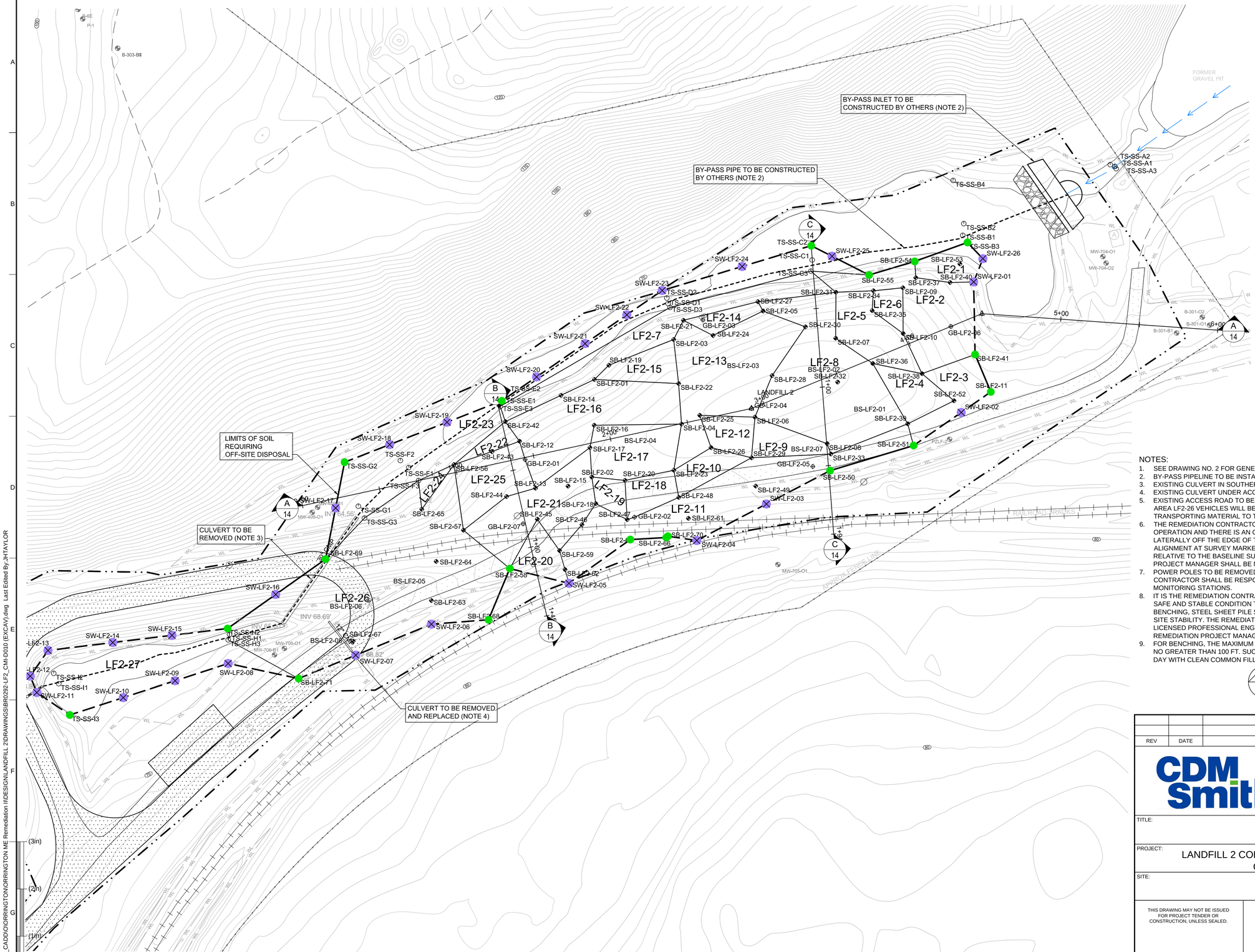

LEGEND

LF2-1	PROPOSED EXCAVATION AREA IDENTIFICATION / BOUNDARY
	PRELIMINARY EXCAVATION BOUNDARY, DEPENDENT ON FINAL CONFIRMATION SAMPLE
	EXCAVATION BOUNDARY
	MONITORING POINT

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. BY-PASS PIPELINE TO BE INSTALLED AS PART OF SCRAP METAL YARD CMI PLAN.
3. EXISTING CULVERT IN SOUTHERLY STREAM TO BE REMOVED AND NOT REPLACED.
4. EXISTING CULVERT UNDER ACCESS ROAD TO BE REMOVED AND REPLACED.
5. EXISTING ACCESS ROAD TO BE REMOVED AS REQUIRED DURING EXCAVATION. WHEN REMOVING EXCAVATION AREA LF2-26 VEHICLES WILL BE REQUIRED TO BACK IN FOR LOADING AND DECONTAMINATION PRIOR TO TRANSPORTING MATERIAL TO TEMPORARY SOIL STOCKPILE AREA.
6. THE REMEDIATION CONTRACTOR SHALL PERFORM DAILY SURVEYS OF THE RAILROAD LINES WHEN THEY ARE IN OPERATION AND THERE IS AN OPEN EXCAVATION WITHIN 5 HORIZONTAL TO 1 VERTICAL PROJECTION LATERALLY OFF THE EDGE OF TRACKS. SURVEYING SHALL BE PERFORMED EVERY 25 FT ALONG THE RAILROAD ALIGNMENT AT SURVEY MARKERS INDICATED. IF GREATER THAN 1/8-IN OF LATERAL MOVEMENT IS OBSERVED RELATIVE TO THE BASELINE SURVEY, NEARBY EXCAVATION WORK SHALL BE STOPPED AND THE REMEDIATION PROJECT MANAGER SHALL BE NOTIFIED.
7. POWER POLES TO BE REMOVED AND REPLACED AS REQUIRED TO SUPPORT EXCAVATION. REMEDIATION CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND MAINTAINING POWER TO PERIMETER AIR MONITORING STATIONS.
8. IT IS THE REMEDIATION CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SITE SLOPES AND EXCAVATIONS IN A SAFE AND STABLE CONDITION THROUGHOUT CONSTRUCTION. THE REMEDIATION CONTRACTOR MAY USE BENCHING, STEEL SHEET PILE SHORING, TRENCH BOX SHORING, OR OTHER SUITABLE METHODS TO ACHIEVE SITE STABILITY. THE REMEDIATION CONTRACTOR SHALL SUBMIT A SHORING DESIGN SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MAINE AND AN INSTALLATION PLAN TO THE REMEDIATION PROJECT MANAGER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING THE WORK.
9. FOR BENCHING, THE MAXIMUM HEIGHT OF A BENCH SHALL BE 4 FT AND THE LENGTH OF THE BENCH SHALL BE NO GREATER THAN 100 FT. SUCH VERTICAL BENCHES SHALL BE BUTTRESSED PRIOR TO THE END OF THE WORK DAY WITH CLEAN COMMON FILL SLOPED AT 2 HORIZONTAL: 1 VERTICAL.

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: EXCAVATION PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

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DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	ZBT	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	10 OF 18
APPROVED BY:	SML		

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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BORING SUMMARY TABLE

LOCATION ID	NORTHING (USSurvey Foot)	EASTING (USSurvey Foot)	GROUND SURFACE ELEVATION (FT)
GB-LF2-01	392391.70	900688.84	74.7
GB-LF2-02	392355.14	900758.30	77.8
GB-LF2-03	392480.28	900801.71	70.6
GB-LF2-04	392424.13	900832.54	78.9
GB-LF2-05	392387.29	900871.47	76.8
GB-LF2-06	392476.18	900959.12	72.9
GB-LF2-07	392350.90	900687.56	76.9
SB-LF2-01	392442.53	900732.85	69.6
SB-LF2-02	392380.65	900731.22	76.6
SB-LF2-03	392467.87	900783.17	71.9
SB-LF2-04	392414.24	900788.14	78.3
SB-LF2-05	392486.00	900839.92	72.2
SB-LF2-06	392418.63	900834.75	78.8
SB-LF2-07	392468.66	900886.01	77.7
SB-LF2-08	392401.79	900880.61	76.3
SB-LF2-09	392500.72	900928.69	72.5
SB-LF2-10	392471.69	900928.87	76.2
SB-LF2-11	392434.66	900984.50	73.8
SB-LF2-12	392403.33	900685.33	72.4
SB-LF2-13	392373.54	900695.46	76.0
SB-LF2-14	392432.45	900711.68	69.0
SB-LF2-15	392374.82	900716.13	76.2
SB-LF2-16	392413.50	900732.71	75.3
SB-LF2-17	392399.30	900730.01	76.4
SB-LF2-18	392363.74	900733.70	77.2
SB-LF2-19	392451.59	900742.04	68.9
SB-LF2-20	392378.50	900752.26	77.0
SB-LF2-21	392480.08	900789.36	69.4
SB-LF2-22	392439.95	900786.33	76.6
SB-LF2-23	392384.94	900783.28	77.4
SB-LF2-24	392470.45	900808.17	73.4
SB-LF2-25	392419.77	900799.72	78.4
SB-LF2-26	392399.30	900806.92	77.9
SB-LF2-27	392491.89	900836.64	70.1
SB-LF2-28	392444.98	900845.65	78.8
SB-LF2-29	392392.86	900832.63	76.9
SB-LF2-30	392475.94	900866.82	75.9
SB-LF2-31	392497.89	900886.17	71.2
SB-LF2-32	392440.87	900887.25	78.7
SB-LF2-33	392395.21	900882.98	76.3
SB-LF2-34	392498.82	900909.98	72.2
SB-LF2-35	392486.25	900909.15	75.3
SB-LF2-36	392452.66	900909.56	78.0
SB-LF2-37	392507.14	900936.86	70.9
SB-LF2-38	392446.24	900940.82	75.9
SB-LF2-39	392414.39	900931.74	75.2
SB-LF2-40	392504.09	900958.63	70.1
SB-LF2-41	392458.39	900974.51	72.1
SB-LF2-42	392415.80	900676.32	67.9
SB-LF2-43	392396.76	900667.82	71.4
SB-LF2-44	392368.21	900677.05	75.4
SB-LF2-45	392353.90	900696.60	77.9
SB-LF2-46	392350.398	900724.937	77.8
SB-LF2-47	392353.574	900753.657	77.9
SB-LF2-48	392367.677	900786.436	77.4
SB-LF2-49	392374.874	900835.258	77.3
SB-LF2-50	392384.699	900882.47	76.6
SB-LF2-51	392400.61	900935.48	75.6
SB-LF2-52	392429.03	900961.10	74.6
SB-LF2-53	392515.86	900964.84	67.7
SB-LF2-54	392517.47	900936.23	67.7
SB-LF2-55	392508.81	900907.22	69.3
SB-LF2-56	392388.53	900643.72	68.9
SB-LF2-57	392346.87	900649.73	75.9
SB-LF2-58	392322.51	900679.18	77.6
SB-LF2-59	392333.96	900710.70	76.9
SB-LF2-60	392340.94	900755.65	77.8
SB-LF2-61	392354.36	900792.53	78.4
SB-LF2-62	392321.90	900714.23	75.7
SB-LF2-63	392302.24	900629.38	73.1
SB-LF2-64	392327.05	900632.43	76.1
SB-LF2-65	392360.15	900623.27	66.8
SB-LF2-66	392342.258	900778.451	78.1
SB-LF2-67	392276.50	900579.71	71.9
SB-LF2-68	392290.05	900665.62	77.0
SB-LF2-69	392328.54	900562.20	75.8
SB-LF2-70	392343.05	900779.53	78.1
SB-LF2-71	392252.74	900545.08	71.3

SOUTHERLY STREAM TRANSECT SAMPLE SUMMARY TABLE

LOCATION ID	NORTHING (USSurveyFoot)	EASTING (USSurveyFoot)	ELEVATION (USSurveyFoot)
TS-SS-A1	392577.72	901063.21	67.40
TS-SS-A2	392578.83	901060.34	67.65
TS-SS-A3	392576.30	901064.08	67.66
TS-SS-B1	392533.95	900966.65	66.97
TS-SS-B2	392541.41	900967.31	66.86
TS-SS-B3	392529.49	900969.68	66.88
TS-SS-B4	392568.85	900960.57	67.88
TS-SS-C1	392518.36	900871.09	65.83
TS-SS-C2	392527.45	900870.50	66.47
TS-SS-C3	392511.29	900870.29	66.60
TS-SS-D1	392490.67	900779.63	66.12
TS-SS-D2	392494.17	900778.83	66.13
TS-SS-D3	392488.22	900780.84	66.26
TS-SS-E1	392428.99	900674.09	65.45
TS-SS-E2	392433.56	900669.96	66.03
TS-SS-E3	392425.50	900673.05	65.89
TS-SS-F1	392386.65	900614.94	65.33
TS-SS-F2	392391.09	900609.68	65.49
TS-SS-F3	392378.40	900621.24	66.06
TS-SS-G1	392362.06	900582.96	65.11
TS-SS-G2	392390.04	900574.27	65.78
TS-SS-G3	392354.52	900586.85	65.17
TS-SS-H1	392280.67	900501.23	64.86
TS-SS-H2	392284.49	900500.04	65.16
TS-SS-H3	392277.29	900500.36	64.88
TS-SS-I1	392249.44	900392.81	63.76
TS-SS-I2	392256.02	900389.62	64.34
TS-SS-I3	392229.61	900399.86	64.90

EXCAVATION SUMMARY TABLE

EXCAVATION AREA NAME	AVERAGE ELEV OF GS	AREA	EXCAVATION OF SOIL WITH HG > 2.2 MG/KG		AVERAGE THICKNESS OF SOILS WITH HG > 2.2 MG/KG	TOTAL EXCAVATION DEPTH	APPROX VOLUME
	(FT)	(SF)	TOP, ELEV. (FT)	BOTTOM, ELEV. (FT)	(FT)	(FT)	(CY)
LF2-1	68.5	760.9	68	64.5	4	4.0	113
LF2-2	73.5	2996.9	75	64.5	9	9.0	999
LF2-3	75.0	1208.9	75	69.5	5.5	5.5	246
LF2-4	77.0	927.8	76	65.5	11.5	11.5	395
			78	65.5	11.5		666
LF2-5	77.0	1564.2	60.5	59	1.5	18.0	87
			74.5	66	9		134
LF2-6	75.0	401.6	60.5	59	1.5	16.0	22
LF2-7	69.0	2881.1	69.5	62.5	6.5	6.5	694
LF2-8	77.0	5314.8	78	62.5	14.5	14.5	2854
LF2-9	78.0	775.9	77	68	10	10.0	287
			77	70	8		207
			68	65	3		78
LF2-10	78.0	699.3	58	56.5	1.5	21.5	39
LF2-11	77.5	5045.9	77	70.5	7	7.0	1308
			77	65	13.5		346
LF2-12	78.5	692.6	58	56.5	1.5	22.0	38
			77	61.5	15.5		2449
LF2-13	77.0	4266.2	58.5	56.5	2	20.5	316
			72.5	62	14		237
LF2-14	71.0	458.0	58.5	57	1.5	14.0	25
LF2-15	73.0	853.9	75	62.5	10.5	10.5	332
LF2-16	74.0	3619.0	76.5	55	19	19.0	2547
LF2-17	77.0	1795.4	76.5	55	22	22.0	1463
			76.5	70	8		208
LF2-18	78.0	703.3	67.5	65	2.5	13.0	65
LF2-19	77.5	416.8	75.5	65.5	12	12.0	185
			76	75.5	2		56
LF2-20	77.5	755.8	73	66.5	6.5	11.0	182
LF2-21	77.0	2741.0	76.5	59	18	18.0	1827
			71.5	64	6.5	15.5	80
LF2-22	70.5	332.1	56.5	55	1.5		18
LF2-23	67.5	5864.9	67	64	3.5	3.5	760
LF2-24	68.0	214.7	*	*	*	*	*
			75.5	61	13		765
LF2-25	74.0	1588.3	56.5	55	1.5	19.0	88
			71.5	68.5	3.5		1455
LF2-26	72.0	11227.1	66.5	63.5	3	8.5	1247
LF2-27	67.0	4317.5	65	60.5	6.5	6.5	1039
Totals		62424					23862

* MERCURY LEVELS WITHIN AREA LF2-24 ARE BELOW 2.2 AT ALL INTERVALS

(3in)
(2in)
(1in)
(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: EXCAVATION TABLES

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JSE	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
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REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML		11 OF 18

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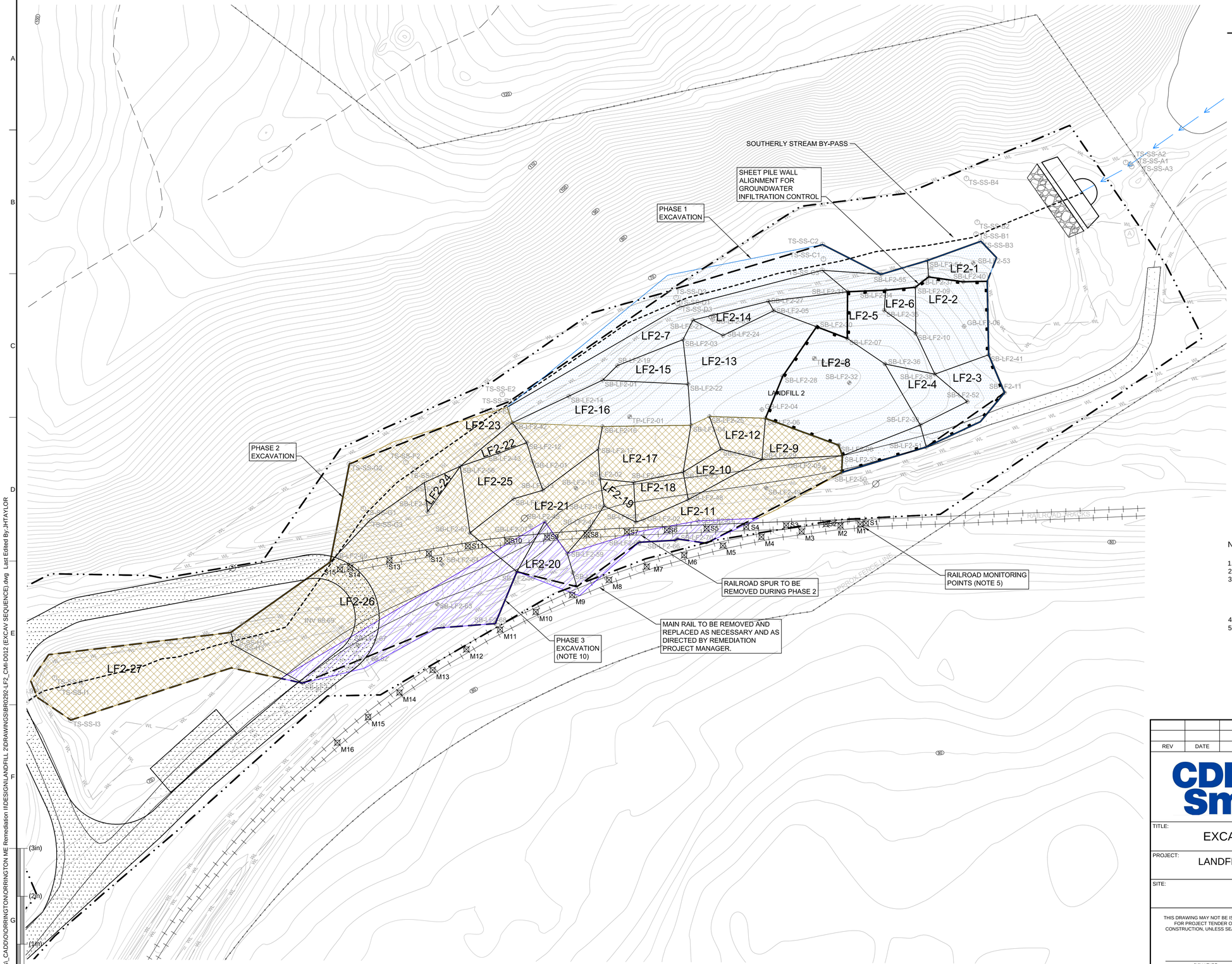


LEGEND

- SHEET PILE ALIGNMENT
- PHASE 1 EXCAVATION AREA
- PHASE 2 EXCAVATION AREA
- PHASE 3 EXCAVATION AREA
- M1 MONITORING POINT

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. SLOPED EXCAVATIONS SHALL BE NO STEEPER THAN 2.5 HORIZONTAL: 1 VERTICAL.
3. A SHEETPILE WALL IS REQUIRED TO REDUCE SUBSURFACE GROUNDWATER FLOW WITHIN A PERVIOUS GRAVEL UNIT WITHIN THE EXCAVATION AREA. THE SHEETPILE WALL LIMITS SHOWN ON THIS DRAWING ARE APPROXIMATE AND ARE BASED ON LIMITED DATA. STORMWATER ORIGINATING OUTSIDE THE EXCAVATION AREA SHALL BE DIVERTED FROM ACTIVE WORK AREAS USING DIVERSION DIKES, BERMS, OR OTHER FEATURES.
4. NO RAIL TRAFFIC IS PERMITTED WHEN IMPLEMENTING THE PHASE 3 EXCAVATION.
5. REMEDIATION CONTRACTOR SHALL INSTALL MONITORING POINTS AT EVERY 25 LINEAR FEET. TWO POINTS SHALL BE INSTALLED AT EACH LOCATION, ONE ADJACENT TO EACH RAIL.

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: EXCAVATION SEQUENCE AND MONITORING PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

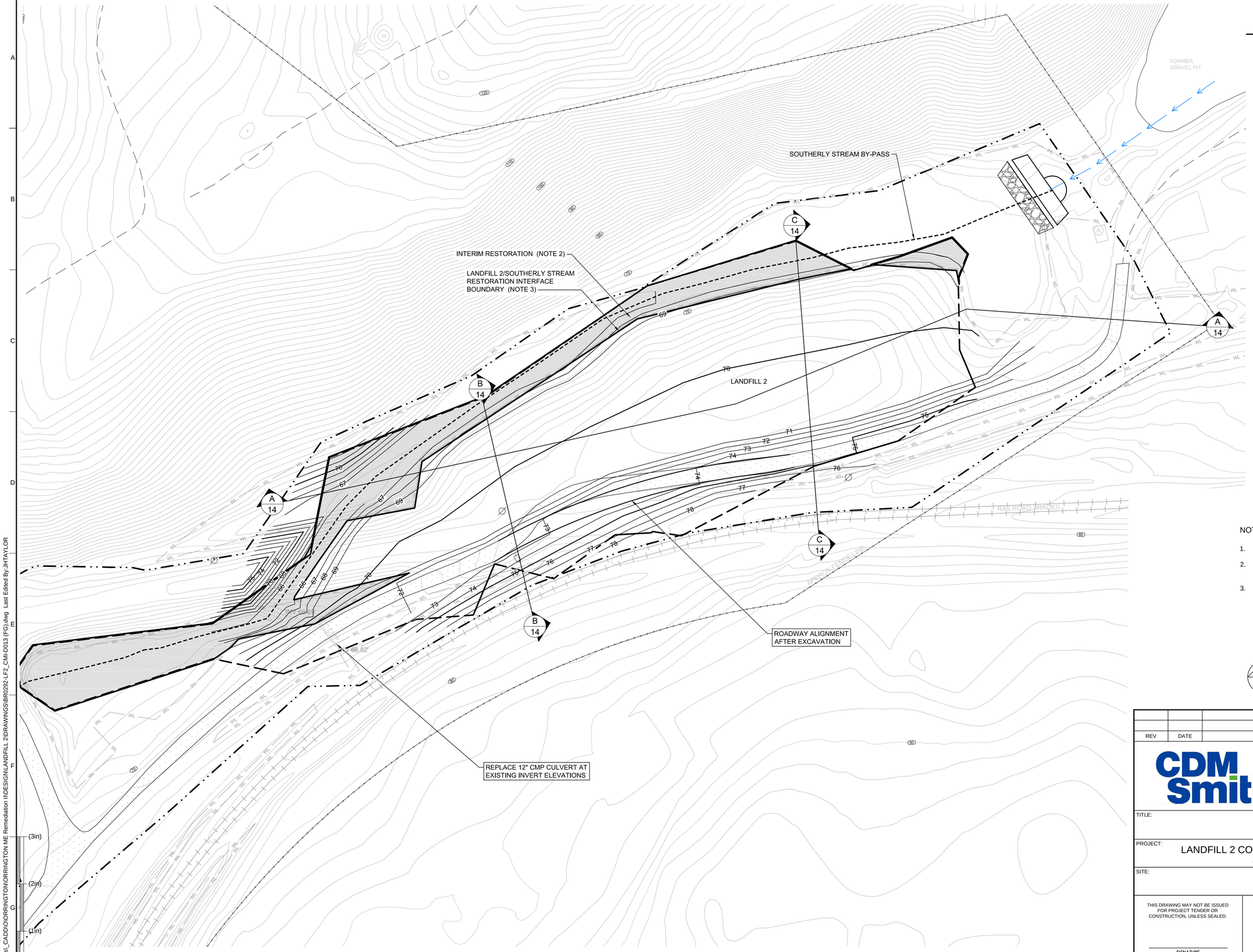
DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	12 OF 18
APPROVED BY:	SML		

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

(1in) (2in) (3in) (4in)

T:\Projects_CADD\O\ORRINGTON\ORRINGTON ME Remediation II\DESIGN\LANDFILL 2\DRAWINGS\BR0292-LF2_CMI-D012 (EXCAV SEQUENCE).dwg Last Edited By: JHTAYLOR



LEGEND

- INTERIM GRADING (NOTE 2)
- 30 — PROPOSED FINAL GRADE ELEVATION (FEET)
- LIMIT OF FINAL GRADING
- BOUNDARY OF RESTORATION (NOTE 3)

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. BACKFILL EXCAVATION TO WITHIN 2 FEET OF ORIGINAL GRADES WITHIN SOUTHERLY STREAM.
3. SOUTHERLY STREAM WILL BE RESTORED AS PART OF THE SOUTHERLY STREAM CMI PLAN.

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: FINAL GRADING PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	13 OF 18
APPROVED BY:	SML		

CMI PLAN

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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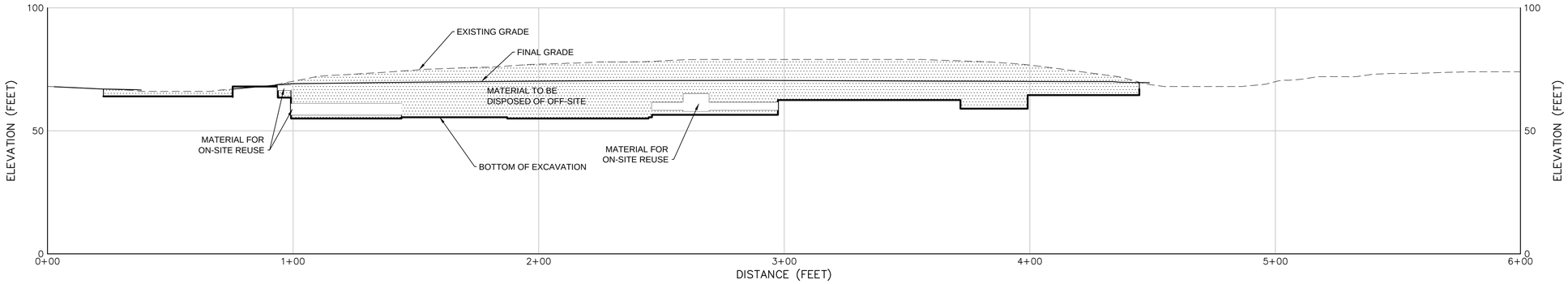
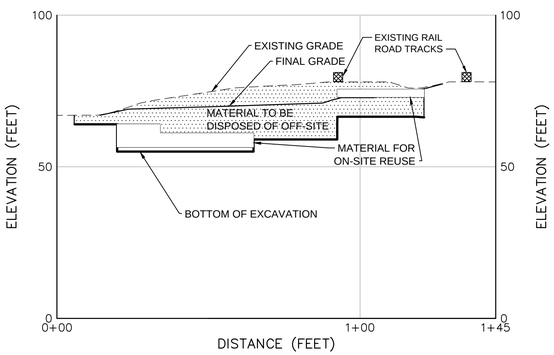


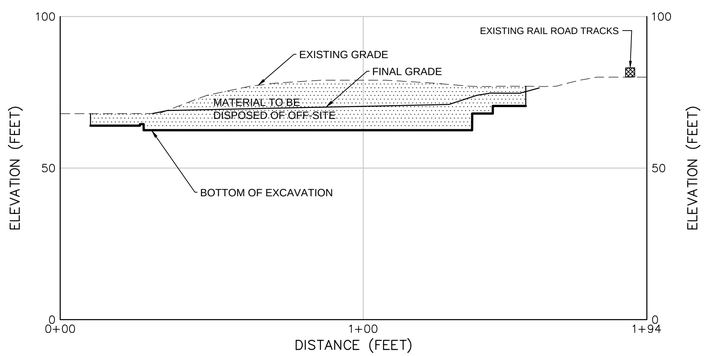
HORIZONTAL: 1" =25'
VERTICAL: 1" =25'

A/13 PROFILE
FINAL GRADE PROFILE



HORIZONTAL: 1" =25'
VERTICAL: 1" =25'

B/13 PROFILE
FINAL GRADE PROFILE



HORIZONTAL: 1" =25'
VERTICAL: 1" =25'

C/13 PROFILE
FINAL GRADE PROFILE

(3in)
(2in)
(1in)
(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith
Geosyntec consultants

TITLE: FINAL GRADE PROFILES

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML	14 OF 18	

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CMI PLAN

NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
2. SOUTHERLY STREAM WILL BE RESTORED AS PART OF THE SOUTHERLY STREAM CMI PLAN.

LEGEND

xxx — FIBER ROLL

AREA OF EROSION CONTROL BLANKET AND PERMANENT SEED MIX

Seed Mixture: New England Erosion Control/Restoration Mix for Dry Sites (New England Wetland Plants, Inc.)

Species:
Creeping Red Fescue (*Festuca rubra*),
Canada Wild Rye (*Elymus canadensis*)
Annual Ryegrass, (*Lolium multiflorum*)
Perennial Ryegrass (*Lolium perenne*)
Blue Grama, (*Bouteloua gracilis*)
Little Bluestem, (*Schizachyrium scoparium*)
Indian Grass, (*Sorghastrum nutans*)
Rough Bentgrass, (*Agrostis scabra*)
Upland Bentgrass, (*Agrostis perennans*)

MANAGEMENT AREA	MEASURE	APPLICATION
EROSION CONTROL BLANKET	EROSION CONTROL BLANKETS SHALL CONSIST OF A BIODEGRADABLE FIBER DOUBLE NET BLANKET SPECIFIED FOR 3H:1V SLOPES OR GREATER, OR USE IN AREAS OF CONCENTRATED FLOW (E.G., NORTH AMERICAN GREEN C125BN OR EQUIVALENT).	APPLY ON SLOPED AREAS WITH GRADES 5H:1V AND STEEPER AS SPECIFIED ON THE PLAN. BLANKETS SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND DETAIL 2 ON DRAWING 17 OF THE DRAWING SET.
PERMANENT SEED MIX	PERMANENT SEED MIX SHALL CONSIST OF A NEW ENGLANG EROSION CONTROL/RESTORATION MIX FOR DRY SITES (NEW ENGLAND WETLAND PLANTS, INC) APPLIED AT A RATE OF 35 LBS/ACRE OR 1 LB/1,250 SQ FT. RATE OF SEED SHALL BE TRIPLED IF SEED IS APPLIED AS DORMANT SEED BETWEEN THE DATES OF NOVEMBER 15 THROUGH APRIL 1.	PERMANENT SEED MIX SHALL BE APPLIED TO AREAS THAT HAVE BEEN FINAL GRADED AND ARE AT PERMANENT FINISH GRADE AT THE RATES SPECIFIED. THE CONTRACTOR SHALL COLLECT SOIL SAMPLES (A MINIMUM OF TWO SAMPLES PER ACRE) OF TOPSOIL USED FOR FINAL GRADING AND SUBMIT FOR A VEGETATION SUPPORT ANALYSIS. SAMPLING EQUIPMENT/INSTRUCTIONS AND SOIL SAMPLE ANALYSES ARE AVAILABLE FROM THE UNIVERSITY OF MAINE COOPERATIVE EXTENSION 5741 LIBBY HALL, ORONO, MAINE 04469-5741, (207-581-3591). THE CONTRACTOR SHALL APPLY FERTILIZER AND AMENDMENTS AS RECOMMENDED BY THE VEGETATION SUPPORT ANALYSIS RECOMMENDATIONS PRIOR TO SEEDING.

N

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: SITE RESTORATION AND STABILIZATION PLAN

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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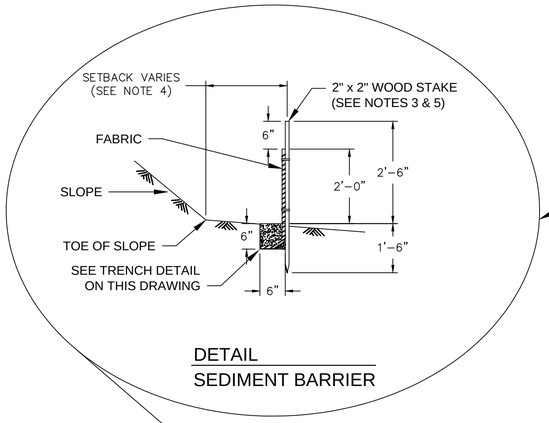
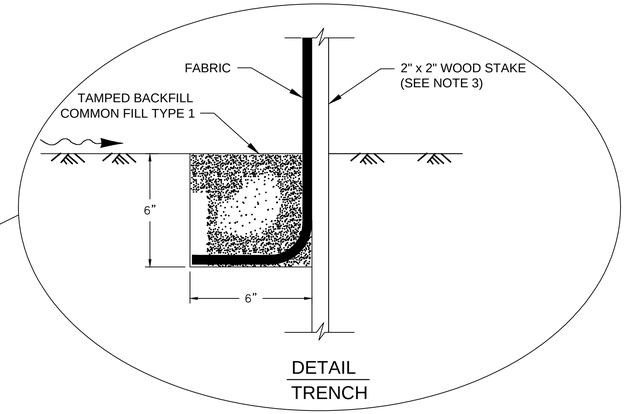
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML		15 OF 18

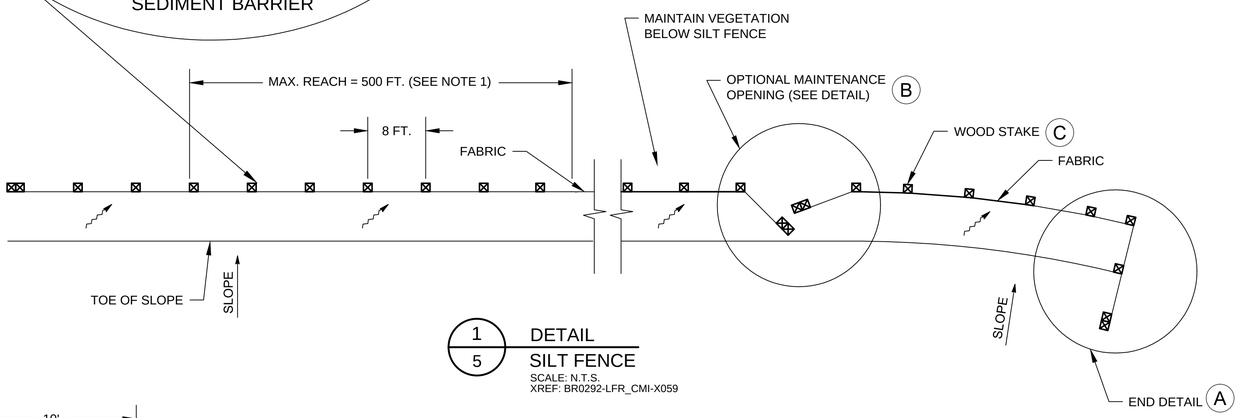
T:\Projects_CADD\O\ORRINGTON\ORRINGTON ME Remediation II\DESIGN\LANDFILL 2\DRAWINGS\BR0292-LF2_CMI-D015 (RESTORE AND STABIL).dwg Last Edited By:JHTAYLOR



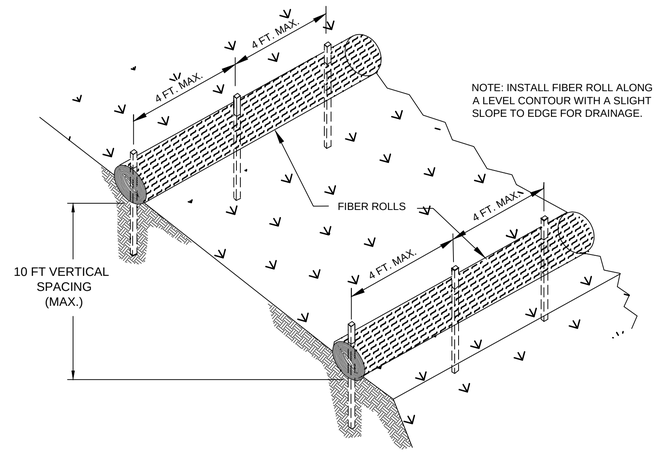
DETAIL
SEDIMENT BARRIER



DETAIL
TRENCH



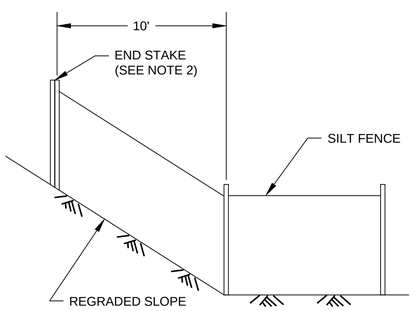
1 / 5 DETAIL
SILT FENCE
SCALE: N.T.S.
XREF: BR0292-LFR_CMI-X059



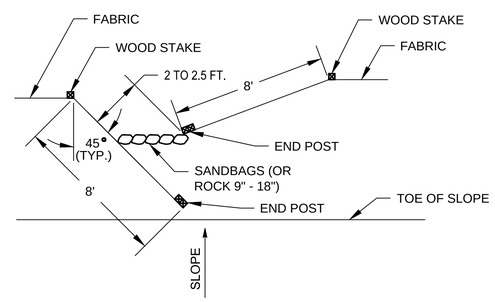
2 / 15 DETAIL
FIBER ROLL
SCALE: N.T.S.
XREF:

NOTES AND LEGEND:

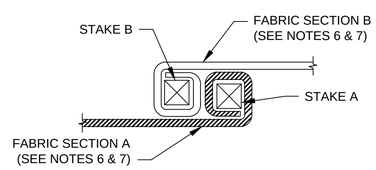
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER, IN NO CASE SHALL THE REACH LENGTH EXCEED 500 FT.
2. THE LAST 10 FT. OF FENCE SHALL BE TURNED UP SLOPE.
3. STAKE DIMENSIONS ARE NOMINAL AND DIMENSIONS SHOWN ARE TYPICAL.
4. DIMENSION MAY VARY TO FIT FIELD CONDITION.
5. STAKES SHALL BE SPACED AT 8 FT. MAXIMUM (10 FT. SPACING FOR END STAKES) AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
6. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH AT LEAST 4 STAPLES.
7. STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURE WITH WIRE.
8. FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURE WITH 4 STAPLES.
9. MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
10. DETAILS ARE DRAWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.



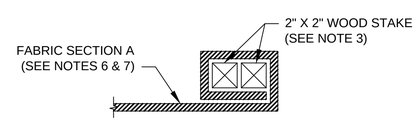
A / - DETAIL
SILT FENCE END
SCALE: N.T.S.
XREF: BR0292-LFR_CMI-X066



B / - DETAIL
OPTIONAL MAINTENANCE OPENING
SCALE: N.T.S.
XREF: BR0292-LFR_CMI-X065



PLAN VIEW
NOT TO SCALE



SECTION (TOP VIEW)
NOT TO SCALE

C / - DETAIL
WOOD STAKE
SCALE: N.T.S.
XREF: BR0292-LFR_CMI-X063

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: SEDIMENT AND EROSION CONTROL DETAILS

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

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DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML	16 OF 18	

CMI PLAN

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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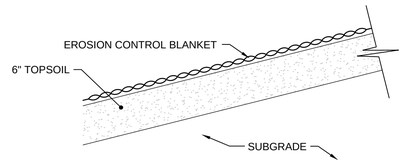
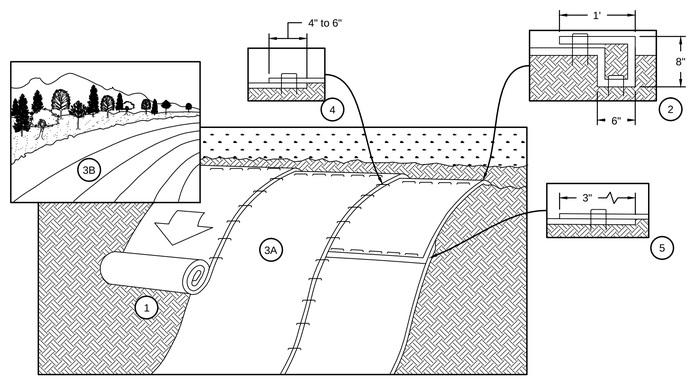


1 / 15 DETAIL
REVEGETATIVE DETAIL
SCALE: N.T.S.
XREF: BR0292-LF2_CMI-X097



NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 8 " DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12 " OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12 " APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 " APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4 "- 6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3 " OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12 " APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
7. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6 " MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
8. EROSION CONTROL BLANKET SHALL CONSIST OF A 24-MONTH BIODEGRADABLE FIBER DOUBLE NET BLANKET SPECIFIED FOR 2H:1V SLOPES OR GREATER (E.G., NORTH AMERICAN GREEN C125BN OR EQUIVALENT).
9. INSTALL EROSION CONTROL BLANKET ON ALL DISTURBED AREAS. EROSION CONTROL BLANKET SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND THIS DETAIL.

2 / 15 DETAIL
EROSION CONTROL BLANKET
SCALE: N.T.S.
XREF: BR0292-LF2_CMI-X090

(3in)
(2in)
(1in)
(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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CMI PLAN

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith
Geosyntec consultants

TITLE: SITE STABILIZATION DETAILS

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

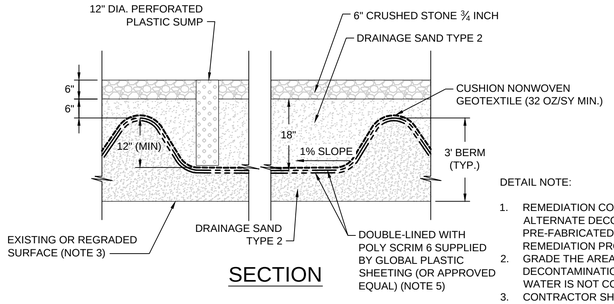
SITE: ORRINGTON, MAINE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JJB	DATE:	JANUARY 2016
DRAWN BY:	JHT	PROJECT NO.:	BR0292
CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML	17 OF 18	



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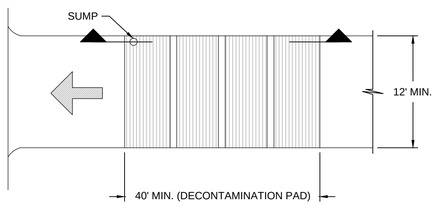
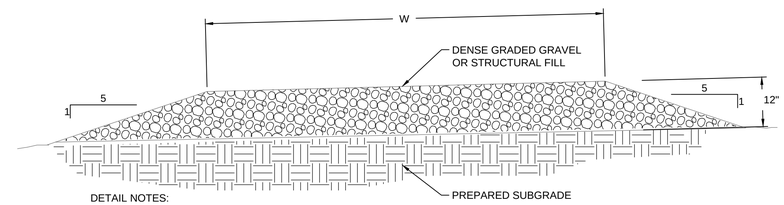


PLAN

DETAIL NOTE:

1. REMEDIATION CONTRACTOR MAY USE ALTERNATE DECONTAMINATION PAD OR PRE-FABRICATED PAD WITH APPROVAL OF THE REMEDIATION PROJECT MANAGER.
2. GRADE THE AREA AROUND THE DECONTAMINATION PAD SO THAT SURFACE WATER IS NOT COLLECTED.
3. CONTRACTOR SHALL GRADE SURROUNDING GROUND SURFACE AS NECESSARY TO CREATE ENTRANCE AND EXIT RAMPS INTO AND OUT OF DECONTAMINATION PAD (AS NECESSARY TO CREATE BURIED 3-FT PERIMETER BERMS OVERLAIN BY SAND AND CRUSHED STONE) AS SHOWN.
4. WATER IN DECONTAMINATION PAD SHALL BE MAINTAINED BELOW THE LOWEST ELEVATION OF THE TOP THE 3FT PERIMETER BERM.
5. POLY SCRIM 6 OR APPROVED EQUAL SHALL HAVE A MINIMUM PUNCTURE RESISTANCE OF 640 LBS/FT ^{2} (PER ASTM D2582).

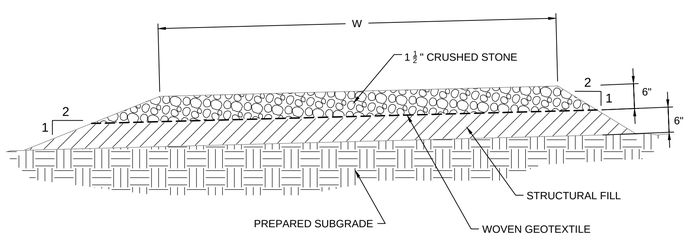
1/5 DETAIL
DECON PAD
SCALE: N.T.S.
XREF: BR0292-LF2_CMI-X089



DETAIL NOTES:

1. W = 15' FOR ONE-WAY ROAD AND 25' FOR TWO-WAY ROAD.
2. SLOPE SURFACE 2% TO DRAIN.

3/6 DETAIL
ACCESS ROAD AT ROAD CROSSING
SCALE: N.T.S.
XREF: BR0292-LF2_CMI-X094



DETAIL NOTES:

1. W = 15' FOR ONE-WAY ROAD AND 25' FOR TWO-WAY ROAD.
2. SLOPE SURFACE 1% TO DRAIN.

2/5 DETAIL
ACCESS ROAD
SCALE: N.T.S.
XREF: BR0292-LF2_CMI-X079

REV	DATE	DESCRIPTION	DRN	APP

CDM Smith

Geosyntec consultants

TITLE: MISCELLANEOUS DETAILS

PROJECT: LANDFILL 2 CORRECTIVE MEASURES IMPLEMENTATION PLAN
ORRINGTON REMEDIATION SITE

SITE: ORRINGTON, MAINE

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CHECKED BY:	JJB	FILE:	
REVIEWED BY:	DTD/CMG	DRAWING NO.:	
APPROVED BY:	SML	18 OF 18	

CMI PLAN

(3in) (2in) (1in) (1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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APPENDIX G
Specifications

DRAFT

SPECIFICATIONS TABLE OF CONTENTS

DIVISION 1: GENERAL REQUIREMENTS
Section 01001: Definition of Terms
Section 01200: Health and Safety
Section 01300: Submittals
Section 01310: Progress Schedules and Project Meetings
Section 01500: Construction Facilities and Temporary Controls
Section 01700: Project Record Documents and Project Closeout

DIVISION 2: SITE WORK
Section 02050: Air Monitoring
Section 02100: Surveying
Section 02120: Erosion and Sediment Control
Section 02130: Clearing, Grubbing, and Stripping
Section 02140: Construction Water Management
Section 02200: Earthwork
Section 02220: Access Roads
Section 02710: Geotextile
Section 02920: Revegetation

DIVISION 13: SPECIAL CONSTRUCTION
Section 13020: Excavation and Soil Handling
Section 13030: Steel Sheet Pile Shoring

SECTION 01001
DEFINITION OF TERMS

PART 1 – GENERAL

1.01 SCOPE

A. This section provides definition of terms and abbreviations used in the Contract Documents.

1.02 DEFINITIONS

The Site: The Site refers to the Orrington Remediation Site in Orrington, Maine.

The Owner: The Owner of the Site is Mallinckrodt US, LLC and is referred to as Mallinckrodt. Mallinckrodt is responsible for the completion of the Landfill 2 Corrective Measures Implementation (CMI) and have contracted with CDM Smith Inc. (CDM Smith) to serve as the Remediation Project Manager for implementation of Corrective Measures at the Landfill 2 Area of the Site.

The Remediation Project Manager: The Remediation Project Manager (CDM Smith) will retain the Remediation Contractor(s) (to be determined), for implementation of Corrective Measures and the Construction Quality Assurance (CQA) program and be responsible for directing the actions of the contractors, including the Remediation Contractor.

The Remediation Contractor: The Remediation Contractor(s) is to be determined. The scope of the Remediation Contractor's activities is to construct and perform the work to satisfy the Final Design as set forth in the Contract Documents.

The Transportation and Disposal Contractor: U.S. Ecology has been retained by the Remediation Project Manager as the Transportation and Disposal Contractor. The Transportation/Disposal Contractor will be responsible for transportation and disposal services related to the Landfill 2 CMI at the direction of the Remediation Project Manager.

Site Supervisor: The Site Supervisor refers to the personnel of the Remediation Contractor responsible for overseeing the project work on behalf of Remediation Contractor.

Subcontractor: The term "Subcontractor" refers to those entities used by the Remediation Contractor(s) or the Transportation/Disposal Contractor to aid in completion of the work. Terms "the Subcontractor" and "Subcontractors", if used, all refer back to Subcontractor.

Surveyor: The Surveyor is an independent registered Land Surveyor, licensed in the state of Maine, who is subcontracted with the Remediation Contractor. References to Surveyor are the Remediation Contractor's Surveyor (i.e., not CQA Surveyor).

Manufacturer: The Manufacturer refers to the manufacturer of geosynthetics (i.e., geogrid and geotextile).

Contract Documents: Contract Documents include the Construction General Terms and Conditions, the Prime Contract, the Request for Proposal, the Drawings, Specifications, CMI Plan, exhibits, attachments, modifications, amendments, and change orders.

Drawings: The Drawings means the final design drawings, titled Landfill 2 Corrective Measures Implementation Plan, Orrington Remediation Site, Orrington, Maine, dated January 2016, that are part of the Contract Documents.

As-Built Drawings: The As-Built Drawings are Site plans that are provided by the Remediation Contractor during and at the conclusion of the Construction work to show as-built conditions of the Corrective Measures.

Days: – Days are to work days and including Mondays through Fridays, and excluding Saturdays, Sundays and Holidays.

Quality Assurance: Quality Assurance refers to inspection and testing of work by the Remediation Project Manager as set for in the CQA Plan.

Quality Control: Quality Control refers to inspection and testing of work by the Remediation Contractor and their suppliers and subcontractors as set for in the technical specifications (Division 2 and Division 13 specifications).

PART 2 – PRODUCTS

(Not Used.)

PART 3 – EXECUTION

(Not Used.)

END OF SECTION

SECTION 01200

HEALTH AND SAFETY

PART 1 – GENERAL

1.01 SCOPE

A. The Remediation Contractor shall develop and implement the Contractor Health and Safety Plan (CHASP) that addresses the health and safety of all Remediation Contractor personnel involved with the construction work. The Remediation Contractor shall also provide a description of how safety will be controlled with regard to non-Remediation Contractor personnel (e.g., regulatory personnel, visitors, etc.). The CHASP shall be submitted to the Remediation Contractor for review and comment prior to the start of the work as described in this Section.

B. The CHASP, at a minimum, shall be compliant with the requirements set forth in this Section and in accordance with the project Health and Safety Plan (HASP).

1.02 RELATED SECTIONS

A. Section 01300 – Submittals

B. Section 01500 – Construction Facilities and Temporary Controls

C. All Sections in Division 2 and 13

1.03 REFERENCES

A. Work performed shall be consistent with the guidelines and references and in compliance with all applicable regulations and standards including, but not limited to, those listed below. In the case that these requirements are conflicting, the one which offers the greatest protection shall be followed.

B. Occupational Safety and Health Administration (OSHA) Publications:

1. 29 CFR § 1910 Occupational Safety and Health Standards for General Industry
2. 29 CFR § 1910.120 Hazardous Waste Operations and Emergency Response
3. 29 CFR § 1910.1200 Hazard Communication
4. 29 CFR § 1915.1000 Air Contaminants
5. 29 CFR § 1926 Safety and Health Regulations for Construction

C. National Institute of Occupational Safety and Health (NIOSH) Publication:

1. NIOSH 85-115 Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities

D. American Conference of Governmental Industrial Hygienists Publication:

1. Threshold Limit Values and Biological Exposure Indices for 2014

E. American National Standards Institute (ANSI):

1. ANSI Z88.2-1992 Practices for Respiratory Protection
2. ANSI Z78.1-2012 Occupational and Educational Eye and Face Protection Devices
3. ANSI Z89.1-2009 Safety Requirements for Industrial Head Protection
4. ANSI Z41.1-1999 Personal Protection-Protective Footwear

F. State of Maine Regulations

1. 12 CMR 179 Board of Occupational Safety and Health

G. CDM Smith, Inc (2014) Health and Safety Plan (HASP) dated October 9, 2014

1.04 SUBMITTALS

A. The Remediation Contractor shall prepare and submit an electronic version of the CHASP to the Remediation Project Manager for review and comment no later than 15 days following Notice to Award. The CHASP shall address the items outlined in this Section and incorporate Spill Control and Countermeasures Plan.

1.05 CONTRACTOR HEALTH AND SAFETY PLAN (CHASP)

A. General

1. The CHASP shall establish, in detail, the protocols necessary for the recognition, evaluation, and control of all hazards associated with each task performed by the Remediation Contractor and all subcontractors. The CHASP shall address site- and project-specific safety and health requirements and procedures based upon site- and project-specific conditions. The level of detail provided in the CHASP shall be tailored to the type of work, complexity of operations to be accomplished, and anticipated hazards.
2. All topics required by OSHA standard 29 CFR § 1910.120(b)(4) and those discussed in the subsequent parts of this Section shall be addressed in the CHASP. When the use of a specific topic is not applicable to the project, the CHASP shall include a statement to justify its omission and establish that the topic was given adequate consideration.
3. The Remediation Project Manager will review the CHASP and will transmit comments to the Remediation Contractor. It will be the responsibility of the Remediation Contractor to address comments the Remediation Project Manager.
4. The Remediation Contractor will not be permitted to initiate Site work until all comments from the Remediation Project Manager on the CHASP have been addressed and resolved. Acceptance of the CHASP indicates only that the CHASP complies with the requirements of this Section and does not imply that all procedures are suitable for the required work. Suitability of the CHASP for the construction work is the sole responsibility of the Remediation Contractor.

B. CHASP Modification

1. Should any unforeseen hazard become evident during the performance of the work, the Remediation Contractor's Health and Safety Officer (HSO) shall bring such hazards to the attention of the Remediation Project Manager, both verbally and in writing, for resolution as soon as possible. In the interim, the Remediation Contractor shall take all necessary actions to re-establish and maintain safe working conditions in order to safeguard on-site personnel, visitors, the public, and the environment.

2. Should the Remediation Contractor seek modification of any portion or provision of the CHASP, such modification shall be requested by the HSO in writing to the Remediation Project Manager and if accepted, be authorized in writing.

3. Any disregard for the provisions of this Section and the approved CHASP shall be deemed just and sufficient cause for ordering all work to cease until the matter has been rectified to the satisfaction of the Remediation Project Manager.

C. The CHASP shall include the following elements at a minimum.

1. Site Description and Contamination Characterization:

   a. location and approximate size of the Site;

   b. Site topography and accessibility by road;

   c. present status and capabilities of emergency response teams that would provide assistance site to workers at the time of an emergency; and

   d. a list of the contaminants and their concentrations found or known to be present in Site areas to be impacted by the work to be performed.

2. Activity Hazard/Risk Analysis:

   a. description of on-site tasks to be performed;

   b. duration of planned Site activities;

   c. chemical, physical, biological, and safety hazards of concern for each Site task and/or operation to be performed (Activity Hazard/Risk Analysis). Potential hazards that may be encountered during Site work are listed below;

      i. normal construction hazards;

      ii. exposure to the Site chemicals of concern (COCs), including those chemicals used as part of the construction operations, via handling contaminated soil, sediment, solid waste, surface water, or groundwater during site work involving intrusive operations (e.g., excavation and grading operations); and

      iii. exposure to the Site COCs by inhalation or dermal contact during construction operations (e.g., dust, air emissions, surface seeps, or stormwater handling).

This is not intended to be a complete list. The Remediation Contractor shall research and use additional sources of information when preparing the "Activity Hazard/Risk Analysis" section of the CHASP.

3. Pathways for hazardous substance dispersion and human exposure.

4. Chemical, physical, and toxicological properties of the contaminants on the select list, sources and pathways of worker exposures, anticipated on and off-site exposure level potentials, and regulatory (including federal, state, and local) or recommended protective exposure standards.

5. Exposure to hazardous substances and/or chemicals brought on-site for the purpose of executing this Contract. If hazardous substances are used in executing the CMI Plan, the Remediation Contractor shall comply with the requirements of 29 CFR § 1910.1200, Hazard Communication.

6. Staff Organization, Qualification, and Responsibilities:

   a. The Remediation Contractor shall develop an organizational structure that sets forth lines of authority, responsibility, and communication. The CHASP shall include a description of this organization, qualifications, and responsibilities of each of the following individuals.

   b. Certified Industrial Hygienist (CIH):

      i. Qualifications. The Remediation Contractor shall utilize the services of an Industrial Hygienist certified in comprehensive practice by the American Board of Industrial Hygiene to develop and implement the CHASP. A resume of the proposed CIH shall be submitted with the bid.

   c. Health and Safety Officer (HSO):

      i. Qualifications. The Remediation Contractor shall designate an individual to be the Health and Safety Officer (HSO). A resume of the proposed HSO shall be submitted with the bid. The HSO shall be experienced in developing and implementing health and safety programs at hazardous waste construction sites.

      ii. Responsibilities. The HSO shall ensure that the procedures and requirements set forth in the CHASP are implemented by Contractor personnel, conduct the Remediation Contractor Site health and safety meetings, conduct safety audits / inspections as required by the Remediation Contractor's CHASP and as otherwise needed, coordinate and oversee the Remediation Contractor's employee health and safety training, and implement a training program for the project and maintain a current recordkeeping system for Remediation Contractor employees.

7. Personal Protective Equipment (PPE):

   a. The CHASP shall address the PPE required for Remediation Contractor personnel for the types of work activities and their health and safety concerns

and shall meet or exceed the minimum PPE requirements set forth in the HASP.

8. Exposure Monitoring:

   a. The CHASP shall address the required exposure monitoring that will be performed by the Remediation Contractor during various activities or tasks that comprise the work to protect Site workers and visitors..

   b. The level of monitoring and sampling shall meet or exceed the requirements set forth in the HASP.

9. Standard Operation Safety Procedures, Engineering Controls, Work Practices:

   a. The CHASP shall address the engineering controls and safe work practices to be implemented. These shall include, but not be limited to the following:

      i. site rules and prohibitions (buddy system, eating /drinking /smoking restrictions, etc.);

      ii. protocols for operation of heavy construction equipment in accordance with 29 CFR § 1926;

      iii. descriptions of safety inspection and preventative maintenance requirements for the operation of machinery or mechanized equipment, including written inspection reports;

      iv. utility clearances;

      v. site “housekeeping”;

      vi. fall protection;

      vii. safe clearance;

      viii. sanitation (in accordance with 29 CFR § 1910.120(n));

      ix. electrical hazards;

      x. communication;

      xi. excavation and trenching; and

      xii. dust control.

10. Site Control and Work Zones:

   a. General. In order to control the potential spread of contaminants and the flow of personnel and materials into and out of the work area, the Remediation Contractor shall establish a site control section in the CHASP. This section shall describe the methodology to be used by the HSO in determining the modification of work zone designations, procedures to limit the spread of contamination, and general limitations to be observed by site personnel. The Remediation Contractor shall clearly delineate, mark, label, and identify the

work zones in the field and shall limit equipment, operations, and personnel in the zones as required the Contract Documents and described in the CHASP.

b. Exclusion Zone (EZ). The EZ boundary shall be set by the Remediation Contractor so that it encompasses areas around individual intrusive construction activities being performed. The Remediation Contractor shall control entry into this area and exit may only be made through the contaminant reduction zone (CRZ).

c. Contaminant Reduction Zone (CRZ). The CRZ shall be located outside of the designated EZ where PPE, and contaminated water or soil shall be containerized for disposal.

d. Support Zone (SZ). The SZ shall be established on the site and is defined as the area outside the zone of significant contamination. The SZ shall be clearly delineated and shall be secured against active or passive contamination from the work site. No equipment or personnel should go from the EZ to the SZ without passing through the CRZ and being decontaminated in accordance with the CHASP.

11. Decontamination:

    a. The Remediation Contractor shall prepare decontamination procedures in compliance with the requirements set forth in the HASP. The decontamination procedures must include provisions for decontaminating all construction equipment and facilities prior to demobilization from the Site.

12. Emergency Equipment and First Aid:

    a. The CHASP shall describe the emergency and first aid equipment to be utilized.

13. Spill Control and Countermeasures Plan (SCCP):

    a. The Remediation Contractor shall prepare a SCCP. The SCCP shall be incorporated into the CHASP, and shall address the following elements at a minimum:

        i. contingency measures for potential spills and discharges from materials handling and/or transportation;

        ii. a description of the methods, means, and facilities required to prevent contamination of soil, water, air, and uncontaminated structures, equipment, or material by spills or discharges;

        iii. a description of the equipment and personnel necessary to perform emergency measures required to contain any spillage and to remove spilled materials and soils or liquids that become contaminated due to spillage. This collected spill material must be properly disposed; and

        iv. a description of the equipment and personnel to perform decontamination measures that may be required to previously uncontaminated structures, equipment, or material.

14. Notification of Authorities:

    a. The Remediation Contractor shall contact and meet on-site with the local emergency response agencies (e.g., fire department, police department, etc.) prior to start of construction. The purpose of the meeting is to inform these local authorities of the nature of the work and potential risks, to ensure that the emergency responders are equipped to respond to an emergency at the site, and to identify and resolve any potential problems, concerns, or conflicts.

1.06 TRAINING

A. For all workers working in or around or having the potential to work in any exclusion zone (EZ) the minimum training content must include basic information relevant to hazardous waste operations required by 29 CFR § 1910.120, including confined space entry (CSE) awareness and hands-on training with air purifying and supplied-air respiratory protective equipment. The HAZWOPER 40-hour OSHA training as well as applicable refreshers must have been completed as required by 29 CFR § 1910.120 prior to arriving onsite and proof of completion shall be provided to the Remediation Project Manager prior to mobilization.

B. In addition, employees involved with construction activities (i.e., excavation, regarding/restoration, etc.) shall have successfully completed the OSHA Construction 10-hour training course. Proof of completion shall be provided to the Remediation Project Manager prior to mobilization.

C. Remediation Contractor personnel working onsite shall participate in the Site orientation provided by the Remediation Project Manager.

1.07 MEDICAL SUVEILLANCE

A. The CHASP shall describe the medical monitoring program including scheduling of examinations, certification of fitness, compliance with OSHA requirements, and information provided to the occupational physician. The Remediation Contractor shall ensure the occupation physician performs the medical examination prescribed in 29 CFR § 1910.120(f) for workers performing work in areas other than the SZ.

B. Remediation Contractor personnel working on-site shall take bi-weekly mercury urinalysis coordinated and paid for by the Remediation Project Manager.

1.08 MEDICAL, FIRST AID, & MONITORING EQUIPMENT

A. The Remediation Contractor shall provide all medical, first aid, and environmental monitoring equipment to be used at the Site.

1.09 PERSONAL PROTECTIVE EQUIPMENT

A. The Remediation Contractor shall supply all PPE necessary to be in compliance with the CHASP for all site personnel. The Remediation Contractor shall make available PPE for use by the Maine DEP and Site visitors.

1.10 LOGS, REPORTS, AND RECORDKEEPING

A. The Remediation Contractor shall maintain CHASP logs covering the implementation of the CHASP and other requirements of this section. The formats shall be developed by the Remediation Contractor and submitted as part of the CHASP.

PART 2 – PRODUCTS

(Not Used.)

PART 3 – EXECUTION

3.01 IMPLEMENTATION OF THE CHASP

A. It shall be the sole responsibility of the Remediation Contractor to ensure that all health and safety requirements are implemented in accordance with the Remediation Contractor's CHASP and applicable regulations.

B. If the Remediation Project Manager that the Remediation Contractor’s HSO is not providing adequate health and safety controls, the Remediation Contractor shall provide alternate personnel subject to the approval and/or acceptance of the Owner to serve as HSO. The Remediation Project Manager shall have the right to stop work at any time for any health and safety related concerns.

END OF SECTION

SECTION 01300
SUBMITTALS

PART 1 – GENERAL

1.01 SCOPE

A. This Section summarizes requirements for Remediation Contractor submittals, including types of submittals, submittal procedures, review procedures, timeliness, etc.

B. A tabulated summary of submittals shall be generated by the Remediation Contractor in which all submittals, as required in the Specifications and the other Contract Documents, are listed (see also Article 3.01 of this Specification).

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01310 – Progress Schedules and Project Meetings

C. Section 01500 – Construction Facilities and Temporary Controls

D. Section 01700 – Project Record Documents and Project Closeout

E. All Sections in Division 2 and Division 13

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016

1.04 TYPES OF SUBMITTALS

A. Submittals include, but are not limited to, the following:

1. Plans. Plans include the specific written narrative of the Remediation Contractor's means and methods to implement the Landfill Ridge Area Corrective Measures Implementation Plan.
2. Administrative Submittals. Administrative submittals include:
   a. Schedules;
   b. Project record documents; and
   c. Warranties and guarantees on work, equipment, and facilities;
3. Technical Submittals. Technical submittals include:
   a. Manufacturer's specifications/cut sheets and certificates of compliance;
   b. Results of quality control testing/product information;
   c. Results of environmental monitoring activities; and
   d. As-built data and drawings, including site surveys.
4. Daily Work Activity Summary Reports.

1.05 SUBMITTAL QUALITY

A. Submittals shall be reproducible with every line, character and letter clearly legible, and usable for further reproduction to yield a legible hard copy.

B. Submittals shall be complete with respect to design criteria and other information specified to enable the Remediation Project Manager to review the information efficiently.

C. Documents submitted to the Remediation Project Manager that do not conform to the requirements outlined herein will not be accepted. If conforming submittals cannot be obtained, such documents shall be retraced, reissued, or photographically restored as may be necessary to meet such requirements. The Remediation Contractor's failure to initially satisfy the legibility and quality requirements will not relieve the Remediation Contractor from meeting the required schedule for submittals.

1.06 LANGUAGE AND DIMENSIONS

A. All words and dimensional units shall be in the English language and units.

B. Metric dimensional unit equivalents may be stated in addition to the English units and the associated requirements.

1.07 DAILY WORK ACTIVITY SUMMARY REPORTS

A. Daily work activity summary reports shall be prepared by the Remediation Contractor each working day and shall include the following:

1. Summary of daily activities;
2. Daily inspection and field test records;
3. Quantities of materials received;
4. Deliveries received and manifest documents to include truck-load tickets and shipping papers;
5. Progress of construction activities;
6. Change of conditions observed;
7. Items causing delays;
8. Photographs of work area; and
9. Accident and safety reports and any emergency response actions.

B. The Remediation Contractor shall document all of the above items on a daily basis, and the information shall be submitted to the Remediation Project Manager by noon of the following day. The Daily Work Activity Records shall be part of the Project Record Documents maintained on site throughout the work and submitted to the Remediation Project Manager at completion.

PART 2 – PRODUCTS

(Not Used.)

PART 3 – EXECUTION

3.01 GENERAL REQUIREMENTS

A. The Remediation Contractor shall submit to the applicable parties (e.g., the Remediation Project Manager and others) for their review and approval, an itemized table listing all submittals required by the Specifications and other Contract Documents. The table shall, at a minimum, have entries that describe (name) each submittal, the referenced document in which the submittal is required (e.g., article and specification number), the date on which the submittal is projected to be made, and extra columns for tracking (documenting the status of) reviews, resubmittals, and approvals. The Remediation Contractor shall then submit to the applicable parties all the submittals required by the Specifications and other Contract Documents.

B. All such items required to be submitted for review shall be furnished by and at the expense of the Remediation Contractor and any work affected by them shall not proceed until approval is provided in writing by the Remediation Project Manager.

C. The Remediation Contractor shall properly prepare, identify, and transmit submittals and their contents as set forth herein or as otherwise directed by the Remediation Project Manager. Every submittal shall bear the Remediation Contractor's signature certifying that the Remediation Contractor has completed the following:

1. Reviewed, checked, and approved the submittal;
2. Coordinated the contents with the requirements of the work and the Contract Documents, including related work;
3. Determined and verified all quantities, field measurements, field construction criteria, materials, equipment, catalog numbers, and similar data;
4. Stated the work covered by the submittal is recommended by the Remediation Contractor and the Remediation Contractor's guarantee will fully apply thereto; and
5. Affixed the date and signature of the Remediation Contractor to the submittal in every case.

3.02 DEVIATIONS

A. At the time of the submission, the Remediation Contractor shall give written notice in the submittal of any deviation from the requirements of the Specifications. The deviations shall be clearly indicated or described including all other changes required to correlate the work. The Remediation Contractor shall state in writing all variation in costs and schedule associated with the deviations and assumptions of the effects on cost and schedule of all related changes if the deviation is approved.

B. The Remediation Contractor is encouraged to inform the Remediation Project Manager in advance of all deviations to minimize possible delays to the schedule that might be needed for the Remediation Project Manager to evaluate the acceptability of any such deviations.

3.03 METHOD OF SUBMITTAL

A. The Remediation Contractor shall deliver submittals electronically to the Remediation Project Manager. Only submittals directly from the Remediation Contractor will be accepted.

B. Each submittal shall be dated, signed, and sequentially numbered as to initial or resubmittal status, and fully describing the submittal contents. In each submittal, the Remediation Contractor shall state at least the following information:

1. Project number and name;
2. Name and address of the Remediation Contractor;
3. Submittal I.D. number, revision number, and Remediation Contractor submittal number;
4. Name and address of the subcontractor if applicable;
5. Manufacturer, supplier, and/or distributor as applicable; and
6. The Drawing and/or Specification section(s) reference and paragraph(s) to which the submittal pertains.

C. Accompanying literature such as data sheets, catalogs, and brochures shall be identified in the submittal. Where several types or models are contained in the literature, the Remediation Contractor shall delete non-applicable portions or specifically indicate which portions are intended and applicable. Submittal transmittals shall fully and clearly index all items submitted.

D. Except where the preparation of a submittal is dependent upon the approval of a prior submittal, all submittals pertaining to the same class or portion of the work shall be submitted simultaneously.

3.04 REVIEW OF SUBMITTALS

A. Unless stated otherwise for a specific item herein, not less than 15 days shall be assumed for the review of submittals, not including 2 days for delivery or mailing, if necessary.

B. Extension of the contract time will not be granted because of the Remediation Contractor's failure to make timely and correctly prepared and presented submittals with allowance for the checking and review periods.

C. Two copies of the submittals will be returned to the Remediation Contractor under one of the following codes:

"REVIEWED – NO COMMENTS" is assigned when there are no notations or comments on submittal. When returned under this code the Remediation Contractor may immediately proceed with the work or release the equipment and/or material for manufacture.

"COMMENTS AS NOTED" is assigned where there are comments attached to the returned submittal, which provide additional data to aid the Remediation Contractor.

"REVISE AND RESUBMIT" is assigned when notations and comments are extensive enough to warrant resubmission of the package. The Remediation Contractor may not proceed with the particular work that is the subject of the original submittal until all notations and comments are addressed in a resubmittal. This resubmittal is to address all comments, omissions, and non-conforming items that were noted by the Remediation Project Manager, and as further specified in Article 3.05 of this specification. Resubmittals are to be received by the Remediation Project Manager within 10 days of the date of the Remediation Project Manager's transmittal requiring the resubmittal, or earlier if needed to adhere to construction scheduling requirements.

"NOT SUBJECT TO REVIEW" is assigned when the submittal concerns items that are not subject to review by the Remediation Project Manager. When returned under this code the Remediation Contractor may immediately proceed with the work or release the equipment and/or material for manufacture.

D. The approval of submittals shall not relieve the Remediation Contractor of responsibility for any deviation from the requirements of the Contract Documents or for any revision in resubmittals unless the Remediation Contractor has given notice in writing of the deviation or revision at the time of submission (or resubmission) and written approval has been received from the Remediation Project Manager for approval of the specific deviation or revision. Nor shall any approval relieve the Remediation Contractor of responsibility for errors or omissions in the submittals or for the accuracy of dimensions and quantities, the adequacy of connections, and the proper and acceptable fitting, execution, and completion of the work.

3.05 CORRECTIONS AND RESUBMITTALS

A. Incomplete submittals, including those not correctly transmitted, not correctly titled and identified, or not bearing the Remediation Contractor's review and approval stamp, will be returned to the Remediation Contractor without review and any related effects on the schedule will be the sole responsibility of the Remediation Contractor.

B. The Remediation Contractor shall direct specific attention in writing to revisions other than the corrections called for on previous submittals. The Remediation Contractor shall state, in writing, all variations in costs and schedule, and assumptions of the related changes. Each resubmittal shall be identified with the number of the original submittal followed by consecutive letters starting with "A" for the first resubmittal, "B" for the second resubmittal, etc.

C. The Remediation Project Manager reserves the right to deduct moneys from the amounts due to the Remediation Contractor to cover the cost of extra review time beyond the first resubmittal.

3.06 CHECK OF RETURNED SUBMITTALS

A. The Remediation Contractor shall check returned submittals for correction and ascertain if the corrections result in extra cost above that included under the Contract Documents. If in the Remediation Contractor's opinion extra costs result from corrections to the submittals, the Remediation Contractor shall give written notice to the Remediation Project Manager within 5 days after the submittal return. By failing to so notify the

Remediation Project Manager, the Remediation Contractor waives all claims for extra costs resulting from required corrections.

3.07 CONFORMANCE

A. No work represented by required submittals shall be purchased or commenced until the applicable submittal has been reviewed and approved. Purchases may be made at the sole risk and expense of the Remediation Contractor.

B. The Remediation Contractor shall not proceed with any related work which may be affected by the work covered under submittals until the applicable submittals have been approved, particularly where machinery, equipment, concrete work, grading and the required arrangements and clearances are involved.

C. Work shall conform to the approved submittals and all other requirements of the Contract Documents unless subsequently revised by an appropriate modification, in which case the Remediation Contractor shall prepare and submit revised submittals as may be required.

3.08 CERTIFICATES OF COMPLIANCE

A. The Remediation Contractor shall furnish the Remediation Project Manager notarized certification for items specified elsewhere in the Contract Documents. All material or equipment manufacturers or installers shall certify in writing that the material supplied or Site conditions are in compliance with the requirements stipulated in the Contract Documents and these Specifications.

END OF SECTION

SECTION 01310

PROGRESS SCHEDULES AND PROJECT MEETINGS

PART 1 – GENERAL

1.01 SCOPE

A. Project Schedule: Throughout the project, the Remediation Contractor shall furnish graphic (e.g., Gantt (bar) chart) type construction progress schedules, showing the planned work sequence, start dates, milestones, percent complete of tasks, and completion times for each part of work.

B. Weekly Project Meetings: Throughout the project, the Remediation Contractor, including applicable subcontractors or suppliers, shall participate in project meetings to discuss items such as progress, upcoming activities, sequencing of work, schedule updates, health and safety, etc.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan submitted as Appendix I of the Landfill 2 CMI Plan dated January 2016

1.04 SUBMITTALS

A. The Remediation Contractor shall submit an initial construction progress schedule that conforms to the format and content requirements of the schedule submitted with their bid and/or as included in the final Contract Documents.

B. After construction starts, the Remediation Contractor shall submit revised progress schedules during each weekly progress meeting. Each updated schedule shall be an updated version of the original schedule submitted by the Remediation Contractor. In addition, a revised progress schedule shall be submitted whenever critical path activities extend beyond the contract completion date.

1.05 FORM OF SCHEDULES

A. The schedules shall be graphical Gantt (bar) charts using the Critical Path Method with the characteristics listed below.

1. Each major work element shall be represented. Significant subtasks shall be broken out from each major work element.
2. The time scale shall indicate the first work day of each week.
3. The diagram shall allow space for notations.
4. The minimum diagram size shall be 11 x 17 inches.

5. Tasks shall be listed in essentially chronological order with the activities that are to occur first given at the top of the schedule.
6. The critical path shall be clearly indicated.

B. Each Progress Schedule shall show:

1. The complete sequence of work by activity; and
2. The dates for the beginning and completion of each major element of work and the sequence of significant subtasks.

1.06 PROGRESS UPDATES

A. Each revised schedule shall include the following, at a minimum.

1. Progress of each activity to date of submission.
2. The projected percent completion for each item, as of last day of the previous week.
3. Changes occurring since the previous schedule submission including:
   a. changes in scope;
   b. activities modified since previous submission;
   c. revised projections of progress and completion; and
   d. other identifiable changes.
4. A narrative report as needed to define:
   a. problem areas, anticipated delays, and impacts on schedule;
   b. corrective action recommended and its effect; and
   c. effect of changes on subcontractor schedules.

1.07 PROJECT MEETINGS

A. Pre-construction Meeting. The meeting will be held at a location to be designated by the Remediation Project Manager.

B. Health and Safety Meetings. The Remediation Contractors shall conduct daily health and safety meetings for their personnel and subcontractors as set forth in the Contractor Health and Safety Plan (see Section 01200 of the project Specifications).

C. Progress Meetings. The Remediation Project Manager will schedule weekly (at a minimum) progress meetings to review work progress, schedules, and other matters needing discussion and resolution. The meetings will be held in the Remediation Contractor's on-site trailer.

PART 2 – PRODUCTS

(Not Used.)

PART 3 – EXECUTION

(Not Used.)

END OF SECTION

SECTION 01500

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 – GENERAL

1.01 SCOPE OF WORK

A. This Section covers requirements for provision, maintenance, and removal of temporary on-site facilities necessary to properly conduct the work, the installation of temporary perimeter controls, and offsite traffic controls.

B. The Remediation Contractor shall furnish and maintain temporary facilities including but not limited to Remediation Contractor's field office, decontamination facilities, site's telephone service, sanitary facilities, and Remediation Contractor's material storage facility.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

1.03 REFERENCES

A. Occupational Safety and Health Administration (OSHA) Publications:

1. 29 CFR § 1910 Occupational Safety and Health Standards;
2. 29 CFR § 1915.1000 Air Contaminants; and
3. 29 CFR § 1926 Safety and Health Regulations for Construction.

1.04 SUBMITTALS

(NOT USED)

1.05 FIELD OFFICES

A. The Remediation Contractor shall provide and maintain a field office for use by the Remediation Contractor's personnel. The field office shall be located in area designated in the Drawings.

1.06 TEMPORARY UTILITIES

A. The Remediation Contractor shall avoid excavation for temporary utility installation within the site boundaries. Temporary utilities shall be run at grade or overhead.

B. Electric Power: The Remediation Contractor shall make arrangements for obtaining temporary electric power service and metering equipment for all field offices. The temporary electric power installations shall meet construction safety requirements of OSHA, state, local, National Electric Code (NFPA 70), and other governing agencies.

C. Water: The Remediation Contractor shall supply potable the field office which can be conveniently accessed by the Remediation Contractor's personnel.

D. Sewage: The Remediation Contractor shall provide and maintain sanitary facilities that comply with regulations of local and state health departments. Chemical toilets shall be

maintained in a sanitary condition at all times, conforming to code requirements and acceptable to the health authorities. They shall be of watertight construction so that no contamination of the area can result from their use. The Remediation Contractor shall make arrangements for frequent emptying of toilets. Upon completion of the work, the Remediation Contractor shall remove toilets and restore area to original conditions.

E. Internet Access: The Remediation Contractor shall provide on-site high speed internet access for project use during construction.

1.08 DECONTAMINATION FACILITY

A. The Remediation Contractor shall provide personnel decontamination facilities as needed to comply with their Contractor Health and Safety Plan (CHASP) and all environmental protection requirements.

B. The Remediation Contractor shall construct temporary decontamination pads, a construction entrance, and wheel washes as shown on Drawings.

1.09 TRAFFIC CONTROL

A. It is sole responsibility of the Remediation Contractor to be completely familiar with and follow local, state, and federal regulations pertaining to traffic control.

B. The Remediation Contractor shall submit a Traffic Control Plan to the Remediation Project Manager. The Remediation Contractor shall perform traffic control in accordance with the approved Traffic Control Plan.

C. At a minimum, the Traffic Control Plan shall include a description of on-Site hauling routes, anticipated traffic, regulatory compliances, use of flagmen (including qualifications of flagmen), communication methodology between flagmen and heavy equipment operators (e.g., radio communication), and other details related to traffic control.

D. The Remediation Contractor shall provide a flagman (or flagmen) at the entrance of the Site, along hauling routes, and/or working areas when local traffic flow may be impacted by work.

PART 2 – PRODUCTS

2.01 FACILITIES, TRAILERS, FURNISHINGS

A. The facilities, trailers, and furnishings may be new or used but shall be serviceable and adequate for the required purpose. The facilities, trailers, and furnishings shall meet applicable codes and regulations and shall not create unsafe or unsightly conditions. Service connections shall be made in accordance with all local and national electric codes.

PART 3 – EXECUTION

3.01 PREPARATION

A. The Remediation Contractor shall grade the locations of the temporary facilities to promote drainage.

3.02 INSTALLATION OF FACILITIES, TRAILERS, AND FURNISHINGS

A. The Remediation Contractor shall construct the field offices, personnel decontamination facilities, personnel shelter, storage shelter, etc. to comply with their CHASP. The facilities shall be constructed on structurally suitable foundations. Trailer units shall be jacked off the wheels, supported on a temporary foundation, and grounded. Steps and landings shall be provided at all doors.

B. The Remediation Contractor shall install furnishings and equipment and provide utility service for field offices for which it supplies.

3.03 REMOVAL

A. The facilities described in this Section shall remain the property of the Remediation Contractor.

B. The facilities described in this Section shall be removed from the Site within 30 days of receipt of notice to remove, or as otherwise required by the Remediation Project Manager.

C. Facilities shall be decontaminated prior to their removal from the Site as appropriate and in accordance with the manufacturer's recommendations and the requirements for equipment decontamination as described in the CHASP.

END OF SECTION

SECTION 01700

PROJECT RECORD DOCUMENTS AND PROJECT CLOSEOUT

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers the requirements for maintenance and submittal of Project Record Documents and other project closeout procedures.

1.02 RELATED SECTION

A. Section 01300 – Submittals

B. Section 02100 – Surveying

C. Section 02920 – Revegetation

1.03 REFERENCES

(Not Used)

1.04 SUBMITTALS

A. The Remediation Contractor shall submit written certification for project closeout as required as part of the closeout procedures described in this specification within 20 days of completion of work.

B. The Remediation Contractor shall submit all Project Record Documents as described in this specification within 20 days of completion of work.

C. The Remediation Contractor shall submit the final Application for Payment as described in this specification within 20 days of completion of work.

1.05 MAINTENANCE OF PROJECT RECORD DOCUMENTS

A. Throughout the work the Remediation Contractor shall maintain one record copy of project documents (the Project Record Documents) in a safe place at the Site including, but not limited to:

1. Drawings;
2. Specifications;
3. Written Plans;
4. Subcontracts;
5. Change orders, field orders, and other modifications to the Contract;
6. All submittals required by the Contract Documents and approved by the Remediation Project Manager;
7. Daily work activity summary reports;
8. Weekly meeting minutes;
9. Construction photographs;

10. Approved submittals/shop drawings;
11. Product data and samples;
12. As-built Drawings and other as-built documentation; and
13. Other documents related to performance of the work.

B. Update:

1. The Remediation Contractor shall update the Project Record Documents on a frequent basis such that the information in the documents is current and can be clearly discussed during every weekly progress meeting.
2. The Remediation Contractor shall legibly mark the following items on the Project Record Documents and Shop Drawings to record actual construction, including:
   a. Approved field changes of locations, dimensions, and details; and
   b. Significant detail(s) not shown in the original Contract Documents.
3. The Project Record Documents shall be kept on the job site, amended as changes occur, and returned to the Remediation Project Manager with the Remediation Contractor's claim for final Application for Payment.

D. Copies of Project Record Documents shall be retained by the Remediation Contractor at an off-site location as a redundancy in case of damage or loss on site.

1.06 PROJECT CLOSEOUT PROCEDURES

A. The Remediation Contractor shall submit written certification to the Remediation Project Manager. The written certification shall indicate that:

1. Contract Documents have been reviewed;
2. Work has been inspected; and
3. Work is complete in accordance with Contract Documents and ready for the Remediation Project Manager's final inspection.

B. Once the written certification is received, the Remediation Project Manager will perform final inspection with the Remediation Contractor in attendance.

C. At the completion of field operations, the Remediation Contractor shall deliver all Project Record Documents to the Remediation Project Manager. Delivery shall be accompanied with a transmittal letter, indicating the date, project title and number, Remediation Project Manager's name and address, and the title of each Project Record Document.

D. The Remediation Contractor shall submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.07 FINAL CLEANING

A. Upon completion of Work and prior to final inspection, the Contractor shall decontaminate and remove all of its equipment, signs, facilities, construction materials, and trash from the Site, and shall perform any other reasonable clean-up activities requested by the Remediation Project Manager. All disturbed areas shall be revegetated or otherwise put into a condition satisfactory to the Remediation Project Manager. Revegetation shall be

carried out in accordance with Section 02920 of the project Specifications and the Drawings.

PART 2 – PRODUCTS

(Not Used.)

PART 3 – EXECUTION

(Not Used.)

END OF SECTION

SECTION 02050

AIR MONITORING

PART 1 - GENERAL

1.01 SCOPE

A. The Remediation Contractor shall furnish all materials, equipment, and personnel necessary to complete the scope of work required in the Drawings and Specifications while maintaining perimeter air quality levels below action levels established in the Perimeter Air Monitoring Plan (PAMP) prepared by the Remediation Project Manager.

B. The Remediation Contractor is responsible for completing all Site construction activities and implementing mitigation measures in accordance with the PAMP. The Remediation Project Manager will furnish equipment and personnel necessary to perform the perimeter air monitoring. The Remediation Contractor will not be allowed to perform intrusive Site work when the perimeter air monitoring stations are not operating.

C. The Remediation Contractor may have to reduce work hours and modify location of work if perimeter air quality exceeds the values set forth in the PAMP.

D. The Remediation Contractor shall furnish all materials, equipment, and personnel necessary to perform air monitoring as required to ensure Remediation Contractor worker health and safety as required by the Remediation Contractors Health and Safety Plan described in Section 01200.

E. The Remediation Contractor will be responsible for repairing or replacing any of the Remediation Project Manager's perimeter air monitoring equipment or enclosures if they are damaged or destroyed during construction activities. Remediation Contractor work activities will not be allowed to proceed until the repaired or replaced equipment is in full operation and in compliance with the PAMP.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 02200 – Earthwork

C. Section 013020 – Excavation and Soil Handling

1.03 REFERENCES

A. Perimeter Air Monitoring Plan. CDM Smith, 2015.

B. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) – OSHA 29 CFR Part 1926 – Safety and Health Regulations for Construction.

C. United States Environmental Protection Agency, USEPA, (1989), "Risk Assessment Guidance for Superfund" Volume 1 – Human Health Evaluation Manual Supplement (Part A). Office of Emergency and Remedial Response.

1.04 SUBMITTALS

A. The Remediation Contractor shall submit required plans outlined in the scope of work to the Remediation Project Manager within the required timeframes outlined in the scope of work. Plans shall describe the Remediation Contractor's specific means and methods to control dust, odor and mercury vapors during construction and shall specifically describe the sequence in which the measures would be applied and the conditions for which they are best suited. The Remediation Contractor will provide a description of the products proposed for use to control of dust, odor, and mercury vapor along with associated product data sheets.

1.05 CONSTRUCTION QUALITY ASSURANCE

(Not Used)

PART 2 - PRODUCTS

2.01 GENERAL

A. The Remediation Contractor shall provide materials including to but not limited to tarps, plastic, non-contact water, sand bags, HgX manufactured by Acton Technologies, Inc., or other approved materials necessary to control air quality at the Site.

PART 3 - EXECUTION

3.01 GENERAL

A. The Remediation Contractor shall prevent HgX material or other materials used to mitigate vapors from coming in direct contact with the ground water or contact water to be sent to the on-site groundwater treatment plant.

B. Air Quality Levels

1. The Remediation Project Manager will characterize the Site air quality level into one of three categories based on the perimeter air monitoring readings. The air quality level will determine which construction activities can be performed and what mitigation measure may need to be implemented. The Remediation Project Manager will notify the Remediation Contractor on a daily basis of the level or if it changes in the course of a day. The air quality levels are as follows:

Level GREEN:	Construction activities may proceed and no specific migration measures are necessary;
Level YELLOW:	Construction activities may proceed with caution, mitigation measures shall be deployed and shortened work schedule may be necessary; and
Level RED:	Work stopped until levels are down to level YELLOW or GREEN

C. The criteria used to establish the air quality level are presented in the PAMP. The mitigation measures and actions are described below as follows:

1. Level GREEN

   a. The Remediation Contractor will institute engineering controls only as necessary to control dust where the potential exists for air-borne particulate generation or odor as a result of all construction activities. The Remediation Contractor shall include controls such as alternate means of work execution, water, wind breaks, chemical stabilization, cover materials, vegetation, etc.

2. Level YELLOW

   a. Where the Remediation Contractor has been notified of a GREEN threshold level exceedance the Remediation Contractor shall implement mitigation measures. Mitigation measures will be performed until either the activity is deemed by the Remediation Project Manager to no longer require measures to be performed, based on determination that the activity is not the source of the exceedance, or the levels abate to level GREEN.

3. Level RED

   a. Where the Remediation Contractor has been notified of a RED threshold level exceedance, work shall be stopped. Mitigation measures shall be performed until either the activity is deemed by the Remediation Project Manager to no longer require measures to be performed, based on determination that the activity is not the source of the exceedance, or the levels abate to threshold level YELLOW OR GREEN.

D. Process Controls

1. Process controls including but, not limited to, delaying or temporary suspension of work may be instituted at the direction of the Remediation Project Manager where conditions (i.e. excessive wind or temperature) may prohibit the proper implementation and effectiveness of engineering controls.

E. Work Stoppage

1. Where engineered or process controls may fail to suppress dust or vapors to established acceptable levels (below Level RED exceedances) or control odors onsite, work shall stop until effective measures are identified to control the condition contributing to the exceedance.

END OF SECTION

SECTION 02100
SURVEYING

PART 1 – GENERAL

1.01 SCOPE

A. The work of this Section shall include, but not necessarily be limited to, establishing temporary survey control points, providing survey control and layout during construction, locating post-excavation confirmation sample locations, verifying thickness of constructed layers, delineating extent of construction areas, providing survey information for the calculation of installed material quantities, generating final As-Built documentation and Drawings, and providing other survey documentation as requested by the Remediation Project Manager.

B. The Remediation Contractor shall retain the services of an independent registered Land Surveyor, licensed in the State of Maine. The term "Surveyor" as used throughout these Specifications shall apply to the Remediation Contractor's Surveyor.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 01700 – Project Record Documents and Project Closeout

D. Section 02200 – Earthwork

E. Section 02220 – Access Roads

F. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan included as Appendix H of the Landfill 2 CMI Plan dated January 2016.

1.04 SUBMITTALS

A. The Remediation Contractor shall provide a submittal at least 15 days prior to the start of work at the site including the following information:

1. The name, address, and telephone number of the Surveyor;
2. The Surveyor's qualifications that demonstrate the Surveyor is an independent registered Land Surveyor, licensed in the State of Maine and has a proven record of successful performance on projects of similar magnitude.
3. A summary of the project staffing, scheduling, and the type of equipment the Surveyor intends to use in the field (with records of calibration) and in the office (i.e., computer software) to complete the project. All employees of the Surveyor working on-site shall meet the minimum training and documentation and certification requirements as specified in 29 CFR § 1910.120.

4. The proposed survey monument type and approximate locations.

B. The Remediation Contractor shall submit the pre-construction survey within 5 days of the start of work.

C. The final As-Built Drawings for a given project component shall be submitted to the Remediation Project Manager within 30 days of completion of work.

D. Upon request, the Remediation Contractor shall submit documentation necessary to verify the accuracy of the survey work.

PART 2 – PRODUCTS

2.01 GENERAL

A. The Surveyor shall furnish all labor, materials, tools, supervision, transportation, and equipment necessary to perform the project surveying work as specified in the Contract Documents.

2.02 SURVEY MONUMENT

A. The Surveyor shall establish a minimum of two permanent survey control monuments within 100-feet of the limit of work shown on the Drawings at the site prior to starting site work. The survey control markers shall consist of concrete or metal survey markers or other such markers approved by the Remediation Project Manager. The survey control monuments shall be tied to the North American Datum of 1983 (horizontal) and the North American Vertical Datum of 1988 (vertical). The Remediation Contractor or the Surveyor shall promptly notify the Remediation Project Manager in writing of any discrepancies discovered before or during construction and inform the Remediation Project Manager of actions desired to be taken.

2.03 SURVEY INSTRUMENT

A. The survey instruments used on this project shall be capable of reading to a precision of 0.01 ft and with a setting accuracy of 10 seconds.

PART 3 – EXECUTION

3.01 GENERAL

A. The Surveyor shall cooperate fully with the Remediation Project Manager at all times.

3.02 PRE-CONSTRUCTION SURVEY

A. The Surveyor shall perform a pre-construction survey to verify the site's existing topographic map as a baseline for construction and Measurement and Payment prior to starting work.

3.03 SURVEY CONTROL AND GRID

A. The Surveyor shall provide survey control for each stage of construction, and "as-built" documentation for various components of construction, including verifying the existing topographic map. The Surveyor shall survey and establish any additional survey control

required for performance of the work, conduct all measurements, and check all dimensions necessary for proper execution of the work.

B. The Remediation Contractor shall protect each permanent survey control point during construction. The Surveyor shall immediately replace any survey control point which is lost, destroyed, or requires relocation, at a cost borne solely by the Remediation Contractor.

C. Project survey control shall be established as follows and tied into the existing survey control shown on the Drawings:

1. Standard accepted surveying methods and equipment shall be used to set survey control and obtain measurements.
2. Surveyor's field notes shall be included with project record documents and submitted to the Remediation Project Manager. The registered surveyor's signatures shall be included on all field notes and surveying as-built documents.
3. Surveying instruments shall be calibrated prior to the start of the work. Documentation attesting to instrument calibration shall be submitted to the Remediation Project Manager prior to performing survey work.

D. The Surveyor shall maintain lines and levels, layout, and locate the work utilizing recognized engineering survey practices. A complete and accurate log of control and survey work shall be maintained by the Surveyor and be made available to the Remediation Project Manager upon request.

E. In addition to the construction control monuments, the Surveyor shall establish a site survey grid for construction and as-built documentation.

F. Surveying activities shall meet or exceed the Standards of Practice set forth by the Maine Board of Licensure for Professional Land Surveyors.

3.04 CONSTRUCTION TOLERANCES

A. The construction tolerances on grades shall be within plus or minus two tenths of a foot measured across any 50 foot section. Surveying tolerances on slopes shall be within plus or minus 10% of the specified slope as calculated from the highest point of the slope (e.g., for a 4 horizontal:1 vertical or 25% slope; the finished surface shall have a slope which measures between 22.5% and 27.5% between any spot and the top of the overall slope). Additionally, drainage features (e.g., benches, swales, downchutes, etc.) shall maintain positive drainage and shall drain in the direction shown on the Drawings.

B. Vertical and horizontal excavation shall extend no greater than 0.5 feet beyond the excavation limits shown on the Drawings as described in section 13020.

C. At a minimum the bottom elevation of excavation areas shall be obtained.

3.05 AS-BUILT DOCUMENTATION

A. The Surveyor shall provide a detailed as-built survey and drawings for the following components:

1. Permanent stormwater management structures;

2. Bottom of excavation at each grid corner shown on drawings and spot elevations across the bottom of the excavation;
3. Soil sample locations;
4. Limits of underdrain; and
5. Post-construction topographic survey showing as-constructed contours of all disturbed/restored areas and showing final site features including but not limited to fencing, access roads, drainage swales and down chutes, etc.

B. The as-built topography shall be surveyed at a minimum on a 25-ft grid and at grade breaks (i.e., crest of slope, toe of slope, drainage path, etc.) so that accurate and representative contour maps may be generated from the survey measurements. Alignments shall be surveyed at 25-ft intervals and at all changes in direction and grade breaks.

C. The As-Built Drawings shall show contours generated by the survey points and identify each control point coordinates and elevation in an accompanying table. The As-Built Drawings shall be prepared using computer aided drafting (CAD) software and shall be at the same scale, coordinate system, and contour interval as the corresponding sheet presented in the Drawings unless otherwise directed by the Remediation Project Manager. All As-Built Drawings shall show grid lines corresponding to those shown on the Drawings and shall generally conform to industry standards as to quality and information shown. As-Built Drawings shall be labeled with the name of the project, the name of the Surveyor, the date of the survey, and the survey location and purpose.

D. The detailed post-construction topographic survey shall be performed immediately after completion of construction and shall extend a minimum of 50 ft in all directions beyond the limits of construction and or disturbance.

E. Procedures for submitting As-Built Drawings and review by the Remediation Project Manager include:

1. The Surveyor shall be prepared to provide the Remediation Project Manager with as-built survey measurements in tabular, electronic format promptly upon request.
2. The final As-Built Drawings for a given project component shall be submitted to the Remediation Project Manager within 30 days of completion of work.
3. The Remediation Project Manager's review process for as-built information will be in accordance with the submittal procedures prescribed in Section 01300 and as set forth in the Contract Documents.

F. Two copies of draft As-Built Drawings and four copies of the final As-Built Drawings shall be provided to the Remediation Project Manager.

G. An electronic copy of final As-Built Drawings in PDF and AutoCAD formats shall be provided to the Remediation Project Manager.

3.06 PROFESSIONAL STAMP

A. All As-Built Drawings shall bear the stamp and signature of the Surveyor responsible for the survey work.

END OF SECTION

SECTION 02120

EROSION AND SEDIMENTATION CONTROL

PART 1. GENERAL

1.01 SCOPE

A. Without limitation, the work of this Section shall include all labor, materials, and equipment to conduct the following:

1. The furnishing and installation of temporary controls such as silt fence, grading to control runoff, baled hay/straw, erosion control blanket, check dams, and other miscellaneous controls as required and/or shown on the Drawings or directed by the Remediation Project Manager;
2. Continual maintenance of installed erosion control devices; and
3. Removal and Cleanup.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02200 – Earthwork

D. Section 02220 – Access Roads

E. Section 02920 – Revegetation

F. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Maine Erosion and Sediment Control Best Management Practices (BMPs)

B. Maine DEP, 2014, Maine Erosion and Sediment Control Practices Field Guide for Contractors, Revision 2014.

C. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016.

D. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 3776 Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
2. ASTM D 4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
3. ASTM D 4533 Standard Test Method for Trapezoid Tearing Strength of Geotextiles.
4. ASTM D 4632 Standard Test Method for Breaking Load and Elongation of Geotextiles (Grab Method).

5. ASTM D 4751 Standard Test Method for Determining Apparent Opening Size of a Geotextile.

6. ASTM D 4833 Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products

1.04 SUBMITTALS

A. At least 15 days prior to the start of work, the Remediation Contractor shall submit manufacturer's material specification sheets and material supplier product data for products and components installed by the Remediation Contractor as part of the work described and shown in the project documents.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. The installation of the erosion and sediment controls will be monitored by the Remediation Project Manager. The Remediation Contractor shall be aware of the activities in the CQA Plan and shall account for these CQA activities in the construction schedule.

B. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of activities set forth in the CQA Plan and this Section.

C. CQA testing or inspections performed by the Remediation Project Manager in no manner relieve the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and Specifications.

D. If quality control or quality assurance tests indicate work does not meet specified requirements, the Remediation Contractor shall remove work, replace, and retest at a cost borne solely by the Remediation Contractor.

PART 2. PRODUCTS

2.01 MATERIALS

A. Silt Fence:

1. Filter fabric fence shall conform to the following requirements:

Test Type	Test Method	Unit	Min. Avg. Roll Value (Machine Direction)
Unit Weight	ASTM D3776	oz/yd^2	3.9 min.
Grab Tensile Strength	ASTM D4632	Lbs	200 min.
Grab Tensile Elongation	ASTM D4632	%	15-60
Puncture Resistance	ASTM D4833	Lbs	60 min.
Trapezoid Tear Strength	ASTM D4533	Lbs	50 min.
Apparent Opening Size	ASTM D4751	U.S. Std. Sieve	40 min.
Flow Rate	ASTM D4491	$gal/min/ft^2$	18-60

2. Filter fabric fence shall be woven fabric;

3. Filter fabric shall be a minimum of 36 inches in width; and

4. Stakes for fencing shall be in accordance with the manufacturer's recommendations.

B. Erosion Control Blanket**:**

1. Erosion Control Blanket shall be double net straw blankets for slopes and double net coconut fiber for ditches/swales or similar, approved by the Remediation Project Manager.

2. Erosion Control Blanket shall be photodegradable and decompose into natural mulch. The mats shall be such that they retain moisture to control runoff and promote the germination of seeds.

C. Fiber Roll:

1. Fiber Roll shall consist of a nine-inch diameter biodegradable straw wattle with a UV degradable polyethylene netting or approved equal.

2. Hardwood stakes used for Fiber Roll installation shall consist of a minimum 1 inch by 1 inch square cross section that are 24 to 36 inches long.

D. Common Fill Type 1:

1. Common Fill Type 1 for the temporary diversion berm shall meet the requirements set forth in the project specifications Section 02200.

E. Temporary Seed and Mulch:

1. Seed and mulch for stabilization of soil stockpile and other disturbed areas shall meet the requirements set forth in the specifications for Seeding and Mulching in Part A-2 of the Maine Erosion and Sediment Control Best Management Practices (BMPs).

PART 3. EXECUTION

3.01 GENERAL EROSION CONTROL REQUIREMENTS

A. The Remediation Project Manager has the authority to control the surface area of each material exposed by the construction operations and to direct the Remediation Contractor to immediately provide permanent or temporary stormwater control measures to prevent impacts to adjacent water courses or other areas of water impoundment. Every effort shall be made by the Remediation Contractor to prevent erosion on the site abutting properties.

B. The Remediation Contractor shall limit the surface area of earth material exposed to the maximum extent practicable.

C. The erosion control measures shall be installed and maintained by the Remediation Contractor. The Remediation Contractor shall remove such installations at the request of the Remediation Project Manager.

D. The Remediation Contractor shall operate all equipment and perform all construction operations to minimize pollution. The Remediation Contractor shall cease any operations which will increase pollution during rainstorms.

3.02 SILT FENCING

A. Install silt fencing as shown on the Drawings and according to the manufacturer's recommendations.

B. Inspect, maintain, and/or replace silt fence throughout the contract period and remove all such temporary features when directed by the Remediation Project Manager.

3.03 EROSION CONTROL BLANKET

A. Install erosion control blanket in temporary diversion berms and on slopes as shown on the Drawings and according to the manufacturer's recommendations.

3.04 FIBER ROLL

A. Fiber rolls may be used to control runoff from small disturbed areas provided that runoff is in the form of sheet flow.

B. Fiber rolls shall be installed along the inner and outer contours of cut slopes.

C. Fiber rolls can also be used as check dams in areas of concentrated flow on a temporary basis, but shall not be used as replacements for check shown on the Drawings.

D. Fiber rolls shall be installed as specified in the Drawings and according the manufacturer's specifications.

3.05 STOCKPILE STABILATION

A. Soil stockpiles shall not be located within 25 feet of any roadway, parking lot, paved area, or drainage structure, channel, or stream unless approved by the Remediation Project Manager. The Remediation Contractor shall provide temporary stabilization and erosion control measures on soil stockpiles within 3 consecutive days of stockpiling, or sooner if forecasts indicate pending weather conditions that may result in unacceptable erosion or sediment runoff.

B. Erosion control blankets, plastic tarp, or vegetation may be used for stabilization of soil stockpiles.

3.06 INSPECTION AND MAINTENANCE

A. The Remediation Contractor is responsible to maintain and document the sediment and erosion control features at all times throughout the project duration and until the completion certification and approval has been issued. This may include but not be limited to stabilizing unvegetated slopes before and throughout the winter, frequently inspecting and maintaining erosion and sediment controls throughout the winter, and repairing or replacing erosion and sediment controls. In no case shall the winter conditions preclude maintenance of erosion and sediment controls nor establishment of final vegetation.

B. Regular sediment and erosion control system inspections shall be conducted by the Remediation Contractor throughout the project duration. At a minimum, weekly inspection shall be conducted by the Remediation Contractor. The Remediation Contractor shall report the results of the inspection and the recommended maintenance and/or repair procedures to the Remediation Project Manager for approval.

C. Additional inspections are required immediately following a major storm event (i.e., > 0.5-in).

D. At a minimum, maintenance shall include, but not be limited to, the following:

1. Sediment buildup shall be removed from silt fences before it exceeds six (6) inches in depth;

2. Any floating construction or natural debris shall be immediately removed from the turbidity curtain to prevent damage; and,

3. Repair and/or replacement of silt fences which are not properly secured, embedded, aligned, or are otherwise no longer providing its intended functions to the satisfaction of the Remediation Project Manager.

3.07 REMOVAL AND CLEANUP

A. The Remediation Contractor shall remove and dispose of all sediment and erosion control features upon receiving project completion approval from the Remediation Project Manager. The removal and cleanup shall be performed to the satisfaction of the Remediation Project Manager.

END OF SECTION

SECTION 02130
CLEARING, GRUBBING, AND STRIPPING

PART 1 – GENERAL

1.01 SCOPE

A. The Remediation Contractor will clear the approximate limits of work prior to construction.

B. The work of this Section includes all construction activities related to the following:

1. clearing, removing, and disposing of all remaining trees, brush, and vegetative cover from within the limits of work as needed to allow construction of the work;
2. removing and disposing of tree stumps grubbed from within the limits of work;

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02100 – Surveying

D. Section 02120 – Erosion and Sediment Control

E. Section 02200 – Earthwork

F. Section 02920 – Revegetation

G. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016.

1.04 SUBMITTALS

A. The Remediation Contractor shall submit a written notification to the Remediation Project Manager at least 15 days prior to start of site clearing, grubbing, and stripping work specified in this Section.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. Clearing, grubbing, and stripping will be monitored by the Remediation Project Manager.

B. The Remediation Contractor shall be aware of the CQA activities and shall account for these activities in the construction schedule.

C. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of CQA activities.

D. CQA activities performed by the Remediation Project Manager in no manner relieve the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and Specifications.

PART 2 – PRODUCTS

2.01 GENERAL

PART 3 – EXECUTION

3.01 EROSION AND SEDIMENT CONTROL

A. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment control measures in the relevant area(s) of construction.

B. Standard details and requirements representing the minimum erosion and sediment control standards that shall be met by the Remediation Contractor during construction are provided on the Drawings and in Section 02120 of the project Specifications. However, regardless of any minimum standards, the Remediation Contractor is solely responsible for implementing, and maintaining proper and fully adequate erosion and sediment controls at all times.

3.02 CLEARING AND GRUBBING

A. Materials to be cleared include trees, shrubs, and any debris or other foreign matter that exists over the existing topsoil, as determined by the Remediation Project Manager.

B. Clearing and grubbing shall only be performed in areas necessary to complete the work identified on the Drawings. Clearing limits are based on the areas of work and are determined by the Remediation Contractor, with the condition that no clearing or grubbing shall occur outside the limit of work shown on the Drawings. Grubbing shall be performed as necessary to complete the work shown on the Drawings.

C. If weather conditions are unsuitable for clearing and grubbing, as determined by the Remediation Project Manager, the Remediation Contractor shall cease operations until permission to resume operations is obtained from the Remediation Project Manager.

D. The Remediation Contractor shall clear all areas necessary within the limit of work. Clearing shall be performed as required for access to the site and execution of work. Clearing shall consist of removing trees, undergrowth, and deadwood. Cleared vegetation shall be shredded or chipped prior to stockpiling and future use onsite. Clearing activities shall be performed in a manner so as to minimize the extent of area cleared and to minimize the disturbance to the existing topsoil.

E. Grubbing shall consist of the removal of stumps, roots, and surficial debris. Grubbed materials from within the Limits of Soils Requiring Offsite Disposal shall be managed as waste and moved to the Temporary Soil Stockpile Area for off-site disposal during the waste excavation activities. These materials shall be stockpiled separately and not mixed with other soils in Temporary Soil Stockpile Area. Grubbed materials from other areas shall be disposed of by the Remediation Contractor at a location approved by the Remediation Project Manager.

F. Clearing for construction access roads shall also be the responsibility of the Remediation Contractor.

3.03 PROTECTION OF WORK

A. The Remediation Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage, the Remediation Contractor shall immediately make all repairs and replacements necessary, at a cost borne solely by the Remediation Contractor.

END OF SECTION

SECTION 02140

CONSTRUCTION WATER MANAGEMENT

PART 1 - GENERAL

1.01.1 SCOPE

A. The work specified in this Section consists of the labor, equipment, tools, materials and services necessary for the management of contact, non-contact, and decontamination water as described herein and as shown on the Drawings.

B. The Remediation Contractor shall furnish, install, operate and maintain equipment and appliances necessary to complete the Work described in the Drawings. These measures may include, but are not limited to: pumps, piping, generators and/or temporary electrical power lines, sump pits, well points, or other measures necessary to implement the Work.

C. The work specifically includes construction and maintenance (new and existing) of transfer piping to the onsite Groundwater Treatment Plant (GWTP). Pre-treatment of contact water may be required to achieve the acceptance criteria of the GWTP. The GWTP will have a maximum treatment capacity of 20,000 gpd and the effluent shall have a TSS value of less than 200 mg/L. The location, capacities, and discharge points will be determined GWTP operator. The Remediation Contractor will be responsible for coordinating with other Remediation Contractors on the Site who may be producing contact water.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02200 – Earthwork

D. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016.

1.04 SUBMITTALS

A. The Remediation Contractor shall submit required plans outlined in the scope of work to the Remediation Project Manager within the required timeframes outlined in the scope of work.

B. Construction water management practices shall comply with the following requirements, unless otherwise indicated and approved by the Remediation Project Manager:

1. The Remediation Contractor shall visit the Site in order to make all necessary inspections and investigations to satisfy them of the validity of any site information they may require prior to starting work. Any information made available to the Remediation Contractor, whether in these documents or from any other source will not relieve the Remediation Contractor of their responsibility to assess the nature and extents of the Work, nor will it guarantee that similar

conditions apply or are valid for any other parts of the site. It is understood that boring logs and related information, such as ground water elevations, site descriptions, etc., depict the subsurface conditions only at the specific locations and at the particular time of the exploration. Ground water elevations as well as the elevations of surface waters adjacent to the site should be expected to vary over time.

2. At least 20 days prior to the start of work, the Remediation Contractor shall submit a schedule of operations, a description of the Remediation Contractor's water transfer system to/from the GWTP including safeguards against puncture, leaks, and breakage to protect contact waters from entering or contacting clean areas, capacity calculations, locations, and details for pumps, sumps, well points, collection and discharge lines, and other items proposed for use and a program of operations to effectively control water encountered during the planned construction schedule.

3. All measures implemented related to Construction Water Management shall be made in such manner to comply with the Stormwater Pollution Prevention Plan (SWPPP) and relevant local, state and federal requirements. The Remediation Contractor shall also include capacity calculations, locations, and details for pumps, sumps, well points, collection and discharge lines, and other items proposed for use.

4. No dewatering or water management operations shall commence until the Remediation Project Manager has reviewed and approved the Remediation Contractors' proposed means and methods.

C. The Remediation Contractor may furnish the services of an experienced, qualified and properly equipped dewatering subcontractor to design and implement the work. If the Remediation Contractor pursues this course, they must submit the name, address and qualifications of the intended subcontractor to the Remediation Project Manager for review and approval at least 15 days prior to the start of work. The submittal shall be made in accordance with Section 01300.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. The construction water management activities will be monitored by the Remediation Project Manager. The Remediation Contractor shall be aware of the activities in the CQA Plan and shall account for these CQA activities in the construction schedule.

B. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of activities set forth in the CQA Plan and this Section.

C. CQA testing or inspections performed by the Remediation Project Manager in no manner relieve the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and Specifications.

D. If quality control or quality assurance tests indicate work does not meet specified requirements, the Remediation Contractor shall remove work, replace, and retest at a cost borne solely by the Remediation Contractor.

PART 2 - PRODUCTS

A. The Remediation Contractor shall provide the proper pumps, transfer piping, hoses etc. which include safeguards against leaks, freezing, punctures, or breakage to ensure effective site water management.

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS

A. The following definitions shall apply to Non-Contact Water, Contact Water and Decontamination Water:

1. Non-Contact water shall be stormwater contacting only non-contaminated surfaces either existing or after stripping and grubbing.
2. Contact Water shall be any water that has come into contact with contaminated materials including ground water, storm water within excavations, runoff from excavation stockpiles, decontamination water, etc.
3. Decontamination Water is that generated by the decontamination process for both equipment and personnel (i.e., water generated within the onsite decontamination pad).

B. The Remediation Contractor shall have accessible and on hand, at all times during construction, sufficient dewatering equipment in good working condition. Additionally, sufficient backup equipment must be available for construction water management in the event of breakdowns in the primary equipment, or to sustain any unexpected increase in water removal.

C. The Remediation Contractor shall provide experienced, qualified personnel to perform all activities associated with this Section.

D. Contact Water generated from excavations or other construction activities shall be directed from the source to the influent manifold of the GWTP for treatment (operation and maintenance of the GWTP by OTHERS).

E. Dewatering of excavations greater than 1 foot below the water table shall be performed using filtered sumps, filtered wells, or filtered well points. The dewatering system will be installed and operated so that the water table within the excavation area will be maintained more than 1 foot below the bottom of the excavation for 24-hours prior to excavation. The purpose of these activities is to minimize solids loading to the GWTP and to minimize soil dewatering outside the excavation.

F. Non-Contact Water shall be discharged through the appropriate Best Management Practices (BMPs) in a manner to prevent local flooding, ponding, damage to new and existing facilities or adjacent sites.

G. Water that has been used for decontamination of vehicles, equipment, and personnel shall be considered contact water and shall be transferred to the GWTP.

H. If materials that meet the criteria for requiring off-site disposal are staged in the Temporary Stockpile Area, any stormwater in contact with the soil or water that drains from the soil will be collected and managed by the Remediation Project Manager.

I. The Remediation Contractor shall control storm runoff Non-Contact Water from entering excavation areas.

J. The Remediation Contractor shall contain Decontamination Water within the exclusion zone and contaminant reduction zone and prevent cross-contamination of support zones.

K. Construction water management measures shall be inspected by the Remediation Project Manager and the Remediation Contractor daily. Repairs, if needed, shall be made as soon as practical

L. Prohibited construction practices include, but are not limited to the following:

1. Dumping of excavation spoils and Contact Water into any stormwater drains, sewers, stream corridor, wetlands, and/or surface waters at unspecified locations and/or at locations not approved by the Remediation Project Manager.

2. The operation of construction equipment and vehicles within or along any stream corridor, wetland or surface waters which results in the discharge of contaminated materials or water.

3. The pumping of silt-laden, untreated water from trenches, excavations, soil stockpiles, truck-washing pads, sumps or other areas onsite into any surface waters, stream corridors, wetlands or locations.

M. Stormwater monitoring will be performed by the Remediation Project Manager and the Remediation Contractor at discharge points; inspections of erosion and sedimentation controls shall be performed to help ensure that these controls are in accordance with the SWPPP. The Remediation Contractor shall immediately correct any observed deficiency.

3.02 LIMITATIONS

A. The Remediation Project Manager will not be held liable for any loss sustained by the Remediation Contractor from damages resulting from dewatering and construction water management activities.

3.03 ADJUSTMENT OF PRACTICES

A. If the planned measures do not result in effective removal and/or management of Non-Contact Water (i.e. stormwater) to the satisfaction of the regulatory agencies having jurisdiction over the project, the Remediation Contractor shall at their own expense

immediately adjust their program and/or institute additional measures so as to satisfy the regulatory agencies.

B. If the Remediation Contractor fails or refuses to comply promptly, the Remediation Project Manager may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of a claim for extension of time or for excess costs or damages by the Remediation Contractor.

END OF SECTION

SECTION 02200
EARTHWORK

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers the requirements for general earthwork related to excavation, backfilling, general site grading, and other associated components as specified herein and as indicated on the Drawings.

B. All excavation, trenching, sheeting, bracing, etc. shall comply with the requirements of OSHA excavation safety standards (29 CFR PART 1926 Subpart P).

C. The Remediation Contractor's responsibilities shall include, but not necessarily be limited to: importing, hauling, stockpiling, backfilling, moisture adjustment /conditioning, and compacting soil materials.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02050 – Air Monitoring

D. Section 02100 – Surveying

E. Section 02120 – Erosion and Sedimentation Control

F. Section 02140 – Construction Water Management

G. Section 02220 – Access Roads

H. Section 02920 – Revegetation

I. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 422 Standard Method for Particle-Size Analysis of Soils
2. ASTM D 698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN-m/m^3))
3. ASTM D 2216 Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
4. ASTM D 2434 Standard Test Method for Permeability of Granular Soils (Constant Head)
5. ASTM D 2974 Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
6. ASTM D 2976 Standard Test Method for pH of Peat Materials

7. ASTM D 4373 Standard Test Method for Rapid Determination of Carbonate Content of Soils

B. Maine Department of Transportation (Maine DOT) Standard Specifications

C. United States Environmental Protection Agency (USEPA) Publication SW-846, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods"

D. 29 Code of Federal Regulations (CFR) Part 1926 Subpart P – Safety and Health Regulations for Construction / Excavation

E. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016

F. CDM Smith, Inc, (2014) Quality Assurance Project Plan (QAPP) Revision 1 December 15, 2014

G. Soil Use Plan submitted as Appendix J of the Landfill 2 CMI Plan dated January 2016

1.04 SUBMITTALS

A. The Remediation Contractor shall notify the Remediation Project Manager a minimum of 15 days prior to the start of work which pertains to the following items:

1. Excavation;
2. Backfilling; and
3. Topsoil Layer.

If work is interrupted for reasons other than inclement weather, the Remediation Contractor shall notify the Remediation Project Manager a minimum of 24 hours prior to resuming work.

B. The Remediation Contractor shall submit the following items to the Remediation Project Manager for review and approval a minimum of 20 days prior to the start of construction using any of the materials outlined in this Section:

1. the location of the proposed material source(s);
2. one 50-lb sample of the soil material from each proposed source; and
3. submittal including the quality control test results for each material and source meeting the requirements at a minimum testing frequencies set forth in this Section.

C. The Remediation Contractor shall submit the in-place density test results within 1 day after testing.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. Work described herein will be monitored by the Remediation Project Manager as outlined in the CQA Plan.

B. Placement of the material in Section 2 will be monitored by the Remediation Project Manager as outlined in the CQA Plan.

C. The Remediation Contractor shall be aware of the activities set forth in the CQA Plan and shall account for these activities in the construction schedule.

D. The Remediation Contractor shall assist the Remediation Project Manager and CQA personnel in every manner necessary for the proper performance of activities set forth in the CQA Plan.

E. CQA testing or inspections performed by the Remediation Project Manager in no manner relieve the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and the project Specifications.

F. If quality control or quality assurance tests indicate work does not meet specified requirements, the Remediation Contractor shall remove work, replace, and retest at a cost borne solely by the Remediation Contractor.

G. If a quality control or a CQA test sample fails to meet the requirements of the project specifications, the Remediation Contractor shall not transport the material to the site unless the material is prequalified by further tests or otherwise accepted by the Remediation Project Manager. Additional quality control and CQA tests for the failed material(s) or newly proposed material(s), if necessary, will be specified by the Remediation Project Manager and performed at the sole expense of the Remediation Contractor.

H. The Remediation Project Manager will perform field quality assurance activities for all soil material placement operations as outlined below.

   1. The minimum testing frequencies for material evaluation and construction quality evaluation are presented in the CQA Plan. The Remediation Contractor shall take the minimum testing frequencies and review time into account in planning his construction schedule.

   2. Sampling and test locations will be selected by the Remediation Project Manager.

   3. A revised testing frequency will be used at the discretion of the Remediation Project Manager when visual observations of the material or construction performance indicate a potential discrepancy from the Contract Documents.

I. Defective Areas:

   1. If a defective area is discovered in any soil layer, the Remediation Project Manager will evaluate the extent and nature of the defect. If the defect is indicated by an unsatisfactory test result, the Remediation Project Manager will evaluate the extent of the defective area by additional tests, observations, a review of records, or other means that the Remediation Project Manager deems appropriate. The Remediation Project Manager will define the limits and nature of the defect.

   2. After the extent and nature of a defect have been determined, the Remediation Contractor shall correct the deficiency to the satisfaction of the Remediation Project Manager.

   3. Additional testing will be performed by the Remediation Project Manager to verify that the defect has been corrected. This additional testing will be performed before any additional work is allowed

PART 2 – PRODUCTS

2.01 GENERAL

A. Substandard materials shall be segregated and will not be permitted at the work area. Any material which is found by the Remediation Project Manager to be substandard shall be removed from the work area by the Remediation Contractor at a cost borne solely by the Remediation Contractor.

B. If material is found to be unsuitable or if more than one borrow source is proposed for a given material, the Remediation Contractor shall submit test results as set forth in Part 1.04 above for each proposed source. The cost of testing materials from additional sources shall be borne solely by the Remediation Contractor.

C. The Remediation Project Manager may test any material from sources submitted by the Remediation Contractor and any imported material at any time. If material is found not meeting the property requirements specified in this Section, the material shall be removed and replaced by the Remediation Contractor. The cost of removal/replacement shall be borne solely by the Remediation Contractor.

D. The Remediation Contractor shall determine water source type and availability and make arrangements for obtaining water for moisture conditioning of soils as specified herein. Groundwater and surface water from the Site shall not be used unless pre-approved by the Remediation Project Manager.

E. Material shall be free of hazardous or toxic constituents above the performance standards as specified in the Soil Use Plan.

1. Pursuant to the requirements of the Soil Use Plan soils used on the site shall be tested by the Remediation Contractor for the following:

    a. MPS parameters;

    b. VOCs (USEPA 8260);

    c. SVOCs (USEPA 8270);

    d. Metals (USEPA 6000/7000 series);

    e. PCBs (USEPA 8082);

    f. Pesticides (USEPA 8081); and

    g. Chlorinated Herbicides (USEPA 8151).

2. The Soil Use Plan describes three types of soil that may be used onsite as follows:

    a. Type 1 On-Site soils are soils from within a remediation area such as the Scrap Metal Yard and Landfill Ridge Area which can be used within a remediation area. Type 1 On-Site soils shall be tested for the parameters listed herein at a frequency of one sample per 20,000 cubic yards of material used and the results submitted to the Remediation Project Manager for approval prior to reuse of material on-site. Testing

performed as part of the pre-design investigation may be used meet the chemical testing requirement.

b. Type 2 On-Site soils are soils from a proposed on-site borrow source outside a remediation area. Type 2 On-Site soils shall be tested for the parameters listed herein at a frequency of one sample per 2,000 cubic yards and the results submitted to the Remediation Project Manager for approval prior to reuse of material on-site.

c. Off Site Soils are soils obtained from off-site sources. The minimum testing frequency shall be 1 per virgin borrow pit source and results submitted to the Remediation Project Manager for approval prior to reuse of material on-site.

3. Soils may be used onsite provided the chemical testing indicates parameter concentrations are less than the MPS criteria and less than the levels listed in the Maine DEP guidance document Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances (RAGs) for unrestricted uses for those parameters for which there are no MPS criteria, with the exception of arsenic. Arsenic concentrations must be in the range of background arsenic levels published in the RAGs, which are greater than the Maine RAGs Residents user guidelines.

2.02 COMMON FILL TYPE 1

A. Common Fill Type I shall be used as general backfill and shall be friable soil free of rubbish, ice, snow, tree stumps, roots, organic matter, and other such undesirable constituents.

B. Common Fill Type I shall meet the following particle size requirements:

SIEVE DESIGNATION	% PASSING BY WEIGHT
3-inch	100
No. 4	40-80
No. 200	0-20

C. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards;
2. Moisture (ASTM D2216) at 1 test per 1,000 cubic yards;
3. Standard Proctor (ASTM D698) at 1 test per 5,000 cubic yards; and
4. Certification and test results certifying that the material meets the requirements for clean fill in Section 2.01 E at 1 test per source.

D. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

2.03 ON-SITE RE-USED MATERIAL

A. Soil excavated from onsite and intended for use as fill or backfill (referred to as On-Site Re-Used Material in the Contract Documents) shall be free of debris, waste, large objects (≥ 18-in. in any dimension), roots and other such undesirable constituents. Excessive amounts of large rock fragments shall be removed by the Remediation Contractor or separated/dispersed within the soil mass such that they do not prevent thorough compaction or density testing of the soil matrix.

B. Excessively wet soil conditions shall not be tolerated, and soil shall have a moisture condition that allows the specified density to be achieved. Unless approved by the Remediation Project Manager, material must be dried or reworked prior to use as backfill: the Remediation Contractor shall do so at a cost solely borne by the Remediation Contractor.

C. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Moisture (ASTM D2216) at 1 test per 1,000 cubic yards;
2. Standard Proctor (ASTM D698) at 1 test per 5,000 cubic yards; and
3. In-Place Density (ASTM D6938) at 1 test per 10,000 square feet.

D. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

E. The Remediation Project Manager will perform chemical characterization listed in Section 2.01 E and as described in the Soil Use Plan.

2.04 DRAINAGE SAND TYPE 2

A. Drainage Sand Type 2 shall be friable soil free of rubbish, ice, snow, tree stumps, roots, organic matter, and other such undesirable constituents.

B. Drainage Sand Type 2 shall meet the gradation requirements of Underdrain Backfill Material presented in Maine DOT specification 703.22 Type B or Type C.

C. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards; and
2. Certification and test results certifying that the material meets the requirements for clean fill in Section 2.01 E at 1 test per source.

D. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager..

2.05 TOPSOIL

A. Topsoil shall be a loam material consisting of fertile, friable soils that are devoid of debris and foreign objects, and free of excessive amounts of roots.

B. Material shall meet the following requirements:

1. No material greater than 3 inches shall be allowed. Topsoil shall be free of noxious weeds, brush, or other litter.
2. Topsoil shall contain a minimum of 4% organic material by weight determined in accordance with ASTM D 2974.
3. pH of topsoil material shall be in the range of 6 to 8 determined in accordance with ASTM D 2976.

C. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards;
2. Organic Content (ASTM D2971) at 1 test per 1,000 cubic yards;
3. pH (ASTM 2976) at 1 test per 1,000 cubic yards; and
4. Certification and test results certifying that the material meets the requirements for clean fill in Section 2.01 E at 1 test per source.

D. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

2.06 STRUCTURAL FILL

A. Structural fill material shall be free of ice, snow, debris, organic matter and other such undesirable constituents.

B. Structural Fill material shall meet the gradation requirements of Maine DOT specification 703.06 Type D Aggregate for Base and Subbase.

C. Structural Fill may not contain concrete for pavement fragments.

D. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards;
2. Moisture (ASTM D2216) at 1 test per 1,000 cubic yards;
3. Standard Proctor (ASTM D698) at 1 test per 5,000 cubic yards;
4. In-Place Density (ASTM D6938) at 1 test per 10,000 square feet; and

5. Certification and test results certifying that the material meets the requirements for clean fill in Section 2.01 E at 1 test per source.

E. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

2.07. DENSE GRADED GRAVEL

A. Dense Graded Gravel material shall consist of homogeneous hard, durable, natural or crushed angular material.

B. Dense Graded Gravel material shall be reasonably free of thin, flat, or elongated pieces, shall contain no organic matter, or soft friable particles, and shall not contain visible asbestos or hydrocarbons.

C. Dense Graded Gravel material for the temporary roads and surfaces shall meet the gradation requirements of in Maine DOT Specification 703.10 Type A Aggregate for Untreated Surface Course and Leveling Course.

D. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards;
2. Moisture (ASTM D2216) at 1 test per 1,000 cubic yards;
3. Standard Proctor (ASTM D698) at 1 test per 5,000 cubic yards;
4. In-Place Density (ASTM D6938) at 1 test per 100 linear feet of Access Road and 1 test per 10,000 square feet in other areas; and
5. Certification and test results certifying that the material meets the requirements for clean fill in Section 2.01 E at 1 test per source.

E. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

2.08 1 1/2-IN. STONE

A. 1 1/2-in. Stone shall consist of durable natural rock consisting of angular fragments. The material shall be free from clay, loam, or other deleterious material.

B. 1 1/2-in. Stone shall meet the gradation requirements for Maine DOT specification 703.13 Crushed Stone ¾-inch.

C. 1 1/2-in. Stone shall have no more than 5% carbonate content when tested in accordance with ASTM D4373.

D. The Remediation Contractor shall perform and submit to the Remediation Project Manager a minimum of one round of quality control tests per borrow source as described below, prior to material being delivered to the site. In addition, the Remediation Contractor shall perform the following tests at the frequency specified below:

1. Grain size (ASTM D422) at 1 test per 1,000 cubic yards

E. Control tests will be repeated if visual or textural change in source material is detected by the Remediation Contractor or Remediation Project Manager.

2.09 EQUIPMENT

A. The Remediation Contractor shall use equipment suitable for excavating, hauling, placing, and spreading earthwork materials of relatively uniform thickness, specific to the placement methods outlined in this Section.

B. The Remediation Contractor shall use a water truck or other equipment capable of applying water uniformly and in controlled quantities to moisture condition soils as needed to achieve specified densities.

C. The Remediation Contractor shall use hand compaction equipment such as a walk-behind pad foot compactor or hand tamper for compaction in areas inaccessible to large vehicular compactors.

PART 3 – EXECUTION

3.01 EROSION AND SEDIMENT CONTROL

A. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment controls as described in Section 02120, in the relevant area(s) of construction.

3.02 STOCKPILING

A. Stockpiles shall be stabilized in accordance with the requirements of Section 02120.

3.03 PLACEMENT AND COMPACTION

A. The Remediation Contractor shall not commence placement and compaction of soil material until the Remediation Project Manager completes the evaluation of the subgrade and surrounding conditions, conformance testing/evaluation of applicable materials, and testing of previous work or layers.

B. Care shall be taken during placement and compaction of soil material around or in the vicinity of existing structures (e.g., monitoring wells and piezometers).

C. The Remediation Contractor shall place and compact all soil materials to the grades, slopes, and elevations shown on the Drawings and as specified in this Section.

D. At the beginning of each day's work, the previously placed soil materials will be inspected by the Remediation Project Manager. The Remediation Project Manager may require reworking and recompaction of previously placed material in accordance with this Section.

E. Standing water, and/or saturated, unstable, or excessively wet soil conditions shall not be tolerated in areas of the subgrade or previous lifts of the material being placed at the time that subsequent layers are placed and compacted.

F. The Remediation Project Manager may increase field testing and observation during placement and compaction of soil materials.

G. The Remediation Contractor shall not place frozen fill, nor shall the Remediation Contractor place fill on frozen ground as determined at the sole discretion of the Remediation Project Manager.

H. The Remediation Contractor shall place and compact each of the soil materials according to the following requirements:

1. On-Site Reused Material, Common Fill Type 1, Structural Fill, and Dense Graded Gravel

   a. On-Site Reused Material, Common Fill Type 1, Structural Fill, and Dense Graded Gravel shall be placed in loose lifts no thicker than 12 inches prior to compaction. These materials shall be compacted to a minimum dry density of 95 percent of the maximum dry density, and within 3 percent of the optimum moisture content as measured using ASTM D698.

2. Topsoil

   a. Topsoil shall be placed in one continuous lift to achieve an in-place constructed minimum thickness of 6 inches. Material shall be pushed upslope to the maximum extent possible.

   b. The entire construction area shall be left in a manner to promote proper drainage of surface water.

3.04 SURVEYING AND CONSTRUCTION TOLERANCES

A. All surveying shall be performed in accordance with Section 02100. The following earthen layers shall be surveyed:

1. Bottom of excavation; and

2. Top of Topsoil layer.

B. The Remediation Contractor shall construct all soil layers to the minimum thicknesses and/or grades shown on the Drawings.

3.05 PROTECTION OF WORK

A. The Remediation Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary as confirmed by the Remediation Project Manager at a cost borne solely by the Remediation Contractor.

END OF SECTION

SECTION 02220
ACCESS ROADS

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers the construction of the Access Roads including placement of Geotextile, and Dense Graded Gravel as shown on the Drawings.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02100 – Surveying

D. Section 02120 – Erosion and Sedimentation Control

E. Section 02130 – Clearing, Grubbing, and Stripping

F. Section 02200 – Earthwork

G. Section 02710 – Geotextile

1.03 REFERENCES

A. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM C 535 Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
2. ASTM D 698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort
3. ASTM D 6938 Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

B. Maine Department of Transportation (MDOT) Standard Specifications

C. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016

1.04 SUBMITTALS

A. At least 20 days prior to the start of access road construction, the Remediation Contractor shall submit the following items for each soil/aggregate type proposed for use to the Remediation Project Manager:

1. the location of the proposed soil material source(s);
2. one 50-lb sample of the soil material from each proposed source; and
3. a submittal including the test results for those tests specified in Section 02200.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. Construction of the access road components of the project will be monitored by the Remediation Project Manager as outlined in the CQA Plan.

B. The Remediation Contractor shall be aware of the activities set forth in the CQA Plan and shall account for these activities in the construction schedule.

C. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of activities set forth in the CQA plan.

D. CQA testing or inspections performed by the Remediation Project Manager in no manner relieves the Remediation Contractor of the responsibility to construct all work to conform the Drawings and the project Specifications.

E. If quality control or quality assurance tests indicate work does not meet specified requirements, the Remediation Contractor shall remove work, replace, and retest at a cost borne solely by the Remediation Contractor.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Dense Graded Road Base material shall meet the requirements specified in Section 02200.

B. Structural Fill shall meet the requirements specified in Section 02200.

C. Topsoil to be installed on adjacent areas disturbed during access road construction shall meet the requirements of the Topsoil specified in Section 02200.

2.02 EQUIPMENT

A. The Remediation Contractor shall furnish, operate, and maintain grading equipment as necessary to produce uniform layers, sections, and smoothness of grade for compaction and drainage.

B. The Remediation Contractor shall furnish, operate, and maintain compaction equipment required for the work.

C. The Remediation Contractor shall furnish, operate, and maintain tank trucks, pressure distributors, or other equipment designed to apply water uniformly and in controlled quantities to variable surface widths as needed to perform the work.

PART 3 – EXECUTION

3.01 EROSION AND SEDIMENT CONTROL

A. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment controls as described in Section 02120, in the relevant area(s) of construction.

3.02 PREPARATION OF SUBGRADE

A. The Access Road alignment shall be cleared, grubbed, and stripped of topsoil as specified in Section 02130.

B. Existing subgrade shall be compacted with a minimum of two passes of a soil compactor, vibratory roller or other compaction method approved by the Remediation Project Manager. Unstable areas and areas requiring additional compaction, as identified by and at the sole discretion of the Remediation Project Manager, shall be corrected by the Remediation Contractor at a cost born solely by the Remediation Contractor.

3.03 PLACEMENT OF STRUCTURAL FILL

A. Structural fill shall be placed on the existing subgrade, as needed, to achieve the maximum road slopes of 8%.

B. Structural fill shall be placed with sideslopes no steeper than 2 Horizontal: 1 Vertical.

C. Structural fill shall be placed and compacted with completed lifts no thicker than 12 inches. Structural fill shall be spread, shaped, and compacted the same day it is placed.

D. Structural fill shall be compacted to a minimum dry density of 95% with a corresponding water content of +/- 1% of the standard proctor value.

3.04 GEOTEXTILE INSTALLATION

A. Geotextile shall be installed as shown in the Drawings and specified in Section 02710.

3.05 PLACEMENT OF DENSE GRADED GRAVEL INSTALLATION

A. Dense Graded Gravel shall be placed and compacted to thicknesses shown on the drawings in completed lifts up to 12 inches thick. The road base shall be spread, shaped, and compacted the same day it is placed.

B. Dense Graded Gravel shall be compacted to a minimum dry density of 95% with a corresponding water content +/- 1% of the standard proctor value.

C. Unstable areas and areas requiring additional compaction, as identified by and at the sole discretion of the Remediation Project Manager, shall be corrected by the Remediation Contractor at a cost borne solely by the Remediation Contractor.

3.06 SURVEYING

A. All surveying shall be performed in accordance with Section 02100.

3.07 PROTECTION OF WORK

A. The Remediation Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. The Remediation Contractor shall maintain the access roads throughout construction where ruts or appear. Access roads with ruts or undulations deeper than 3 inches shall be repaired by regrading, resurfacing, recompacting, or other means approved by the Remediation Project Manager.

C. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary at a cost borne solely by the Remediation Contractor.

END OF SECTION

SECTION 02710
GEOTEXTILE

PART 1 – GENERAL

1.01 SCOPE

A. The Remediation Contractor shall furnish all geotextile, labor, incidental materials, tools, supervision, transportation, and installation equipment necessary for the installation of geotextile, and as specified herein and as shown on the Drawings.

B. The Remediation Contractor shall install all geotextile and shall be responsible for field handling, storing, deploying, seaming or connecting, temporary restraining, anchoring, and other aspects of geotextile installation.

C. The Remediation Contractor shall be prepared to install geotextile in conjunction with the other components of the project.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 01300 – Submittals

C. Section 02200 – Earthwork

D. Section 02220 – Access Roads

E. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 4355 Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus.
2. ASTM D 4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
3. ASTM D 4533 Standard Test Method for Trapezoid Tearing Strength of Geotextiles.
4. ASTM D 4632 Standard Test Method for Breaking Load and Elongation of Geotextiles (Grab Method).
5. ASTM D 4751 Standard Test Method for Determining Apparent Opening Size of a Geotextile.
6. ASTM D 4873 Standard Guide for Identification, Storage, and handling of Geotextiles.
7. ASTM D 5261 Standard Test Method for Measuring Mass per Unit Area of Geotextiles.

8. ASTM D 6241 Standard Test Method for the Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe.

B. The latest version of American Association of State Highway and Transportation (AASHTO) M288 – Standard Specification for Geotextile Specification for Highway Application.

C. Federal Standard No. 751a – Stitches, Seams, and Stitching

D. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016

1.04 SUBMITTALS

A. At least 15 days prior to delivery of any geotextile, the Remediation Contractor shall provide the Remediation Project Manager with the following documentation on the proposed geotextiles:

1. Manufacturer and product name.
2. The Manufacturer shall submit quality control certificates of each type of geotextile used on this project to demonstrate that the material conforms to all property requirements specified in this Section. The certificates, signed by the Manufacturer(s) quality control manager, shall also include: lot, batch, and roll number and identification; and results of manufacturing quality control tests including description of test methods used.
3. Proposed geotextile delivery dates.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. The installation of the geotextile will be monitored by the Remediation Project Manager. The Remediation Contractor shall be aware of the activities in the CQA Plan and shall account for these CQA activities in the construction schedule.

B. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of activities set forth in the CQA Plan and this Section.

C. CQA testing or inspections performed by the Remediation Project Manager in no manner relieves the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and Specifications.

D. If quality control or quality assurance tests indicate work does not meet specified requirements, Remediation Contractor shall remove work, replace and retest at a cost borne solely by the Remediation Contractor.

PART 2 – PRODUCTS

2.01 GEOTEXTILE

A. Unless otherwise noted on the Drawings, the Manufacturer(s) shall furnish materials of which minimum average roll values (MARVs) meet or exceed the criteria specified in the following table:

Non-Woven Geotextile for Separation/Filter Applications			
PROPERTY	**SPECIFIED VALUE**	**UNITS**	**TEST METHOD**
Mass per unit area	≥ 7.5 (8 nominal)	oz/yd^2	ASTM D 5261
Grab Tensile	≥ 180 (MD and CD)	lbs	ASTM D4632
Trapezoidal Tear Strength	≥ 75 (MD and CD)	lbs	ASTM D4533
Puncture Strength (CBR)	≥ 380	lbs	ASTM D6241
Permittivity	≥ 1.4	sec^{-1}	ASTM D4491
Apparent Opening Size	≤ 80 max. ≤ 0.18	US Sieve mm	ASTM D4751
Ultraviolet Resistance @ 500 hours	≥ 70	% retained	ASTM D4355
Non-Woven Geotextile for Cushion Application			
PROPERTY	**SPECIFIED VALUE**	**UNITS**	**TEST METHOD**
Mass per Unit Area	≥ 24	oz/yd^2	ASTM D5261
Grab Tensile	≥ 500 (MD & CD)	lbs	ASTM D4632
Trapezoid Tear Strength	≥ 200 (MD & CD)	lbs	ASTM D4533
Puncture Strength (CBR)	≥ 1,720	lbs	ASTM D6241
Ultraviolet Resistance @ 500 hours	≥ 70	% retained	ASTM D4355
Non-Woven Geotextile for Cushion (Geomembrane Protection)			
PROPERTY	**SPECIFIED VALUE**	**UNITS**	**TEST METHOD**
Mass per Unit Area	≥ 32	oz/yd^2	ASTM D5261
Grab Tensile	≥ 600 (MD & CD)	lbs	ASTM D4632
Trapezoid Tear Strength	≥ 270 (MD & CD)	lbs	ASTM D4533
Puncture Strength (CBR)	≥ 2,280	lbs	ASTM D6241
Ultraviolet Resistance @ 500 hours	≥ 70	% retained	ASTM D4355

Notes,
1. MD = Machine Direction and CD = Cross-machine Direction

B. Woven Geotextile for access road application shall satisfy the requirements for Class 1 applications as outlined in AASHTO M288.

C. The Remediation Contractor shall furnish geotextiles that are stock products.

D. The Remediation Contractor shall not use any geotextile roll that does not comply with the manufacturing quality control requirements. Any geotextile sample that does not comply with the requirements of this Section shall result in the rejection of the roll from which the sample was obtained. The Remediation Contractor shall replace any rejected geotextile at a cost borne solely by the Remediation Contractor.

E. Geotextile shall be supplied by the Manufacturer in rolls wrapped in relatively waterproof and opaque protective covers.

F. Geotextile rolls shall be marked or tagged with the following information:

1. manufacturer's name;
2. product identification;
3. lot number;
4. roll number; and
5. roll dimensions.

G. Geotextile rolls which cannot be identified as prescribed in this Section (e.g., because of missing or damaged labels) will be removed from the job site by the Remediation Contractor and replaced at a cost solely borne by the Remediation Contractor.

PART 3 – EXECUTION

3.01 TRANSPORTATION

A. Transportation of geotextile is the responsibility of the Remediation Contractor. The Manufacturer shall be liable for all damages to the materials incurred prior to transportation.

B. Geotextile shall be delivered to the Site at least 15 days before the scheduled date of deployment to allow the Remediation Project Manager adequate time for taking inventory and obtaining additional conformance samples, if needed. The Remediation Contractor shall notify the Remediation Project Manager a minimum of 24 hours prior to any delivery.

3.02 HANDLING AND STORAGE

A. The Remediation Contractor shall be responsible for handling, unloading, storage, and care of the geotextile prior to, during, and following installation. The Remediation Contractor shall be liable for all damages to the geotextile incurred prior to final acceptance by the Remediation Project Manager.

B. The Remediation Contractor shall be responsible for storage of the geotextile at the Site after the material is delivered and shall protect the geotextile from moisture, long-term direct exposure to sunlight, puncture, or other damaging or deleterious conditions (e.g., mud, dirt, and dust). The Remediation Contractor shall be responsible for any additional storage procedures required by the Manufacturer(s).

C. The Remediation Contractor shall store geotextile rolls on pallets or other elevated structures, and shall not store geotextile rolls directly on the ground.

D. Outdoor storage of rolls shall not exceed the Manufacturer's recommendation or longer than 3 months for rolls wrapped in relatively waterproof and opaque protective covers and 30 days for unwrapped rolls, whichever is less.

3.03 PLACEMENT

A. The Remediation Contractor shall not commence geotextile installation until the Remediation Project Manager completes quality assurance evaluations of the geotextiles and performance evaluations of previous work, including evaluation of the Remediation Contractor's survey results for previous work, if applicable.

B. Precautions shall be taken to prevent damage to underlying materials and geotextile during placement of the geotextile.

C. After unwrapping the geotextile from its opaque cover, the geotextile shall not be left exposed for a period in excess of 30 days.

D. If white colored geotextiles are used, the Remediation Contractor shall take precautions against "snowblindness" of personnel.

E. The Remediation Contractor shall examine the surfaces to be covered with geotextile before deployment to ensure there are no potentially harmful foreign objects. Foreign objects shall be removed by the Remediation Contractor prior to deploying the geotextile.

F. All geotextile shall be anchored with ballast to prevent wind uplift and associated damage. Such ballasts shall be installed during placement and shall remain until the geotextile is covered.

G. The Remediation Contractor shall allow the Remediation Project Manager to examine the deployed geotextile surface after installation as added assurance that no potentially harmful foreign objects are present either above or below the geotextile.

H. Geotextile shall not be placed on saturated or frozen subgrade or standing water unless approved by the Remediation Project Manager.

3.04 OVERLAPS AND SEWN SEAMS

A. Any adjacent fabrics shall be overlapped a minimum of 6 inches.

B. If sewn, the sewing thread and method shall be such that the tensile strength of sewn seams exceeds the specified grab tensile strength for the parent material presented in this Section.

3.05 REPAIR

A. Any holes or tears in the geotextile shall be repaired using a patch made from the same geotextile, with a minimum of 3 feet overlap in all directions. Geotextile patches will be sewn into place no closer than 1 inch from any panel edge. Should any tear exceed 50 percent of the width of the roll, that roll shall be removed and replaced. Heat bonding of geotextiles shall be performed on patches only upon specific approval of the Remediation Project Manager.

3.06 MATERIALS IN CONTACT WITH GEOTEXTILE

A. The Remediation Contractor shall place all soil or aggregate on top of geotextile such that:

1. the geotextile and underlying materials are not damaged;
2. minimum slippage occurs between the geotextile and underlying layers; and
3. excess stresses and wrinkles are not induced in the geotextile.

B. Equipment shall not be driven directly on the geotextile. Unless otherwise specified by the Remediation Project Manager, all equipment operating on earthen materials overlying the geotextile shall comply with the following:

ALLOWABLE EQUIPMENT GROUND PRESSURE (PSI)	THICKNESS OF OVERLYING COMPACTED SOIL (FT)
< 5	1.0
< 10	1.5
< 20	2.0
> 20	3.0

C. The Remediation Contractor shall spread soil on top of the geotextile to cause the soil to cascade over the geotextile rather than be pushed across the geotextile.

3.07 PRODUCT PROTECTION

A. The Remediation Contractor shall use all means necessary to protect all prior work including all materials and completed work of other specification Sections.

B. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary as confirmed by the Remediation Project Manager and at a cost borne solely by the Remediation Contractor.

END OF SECTION

SECTION 02920
REVEGETATION

PART 1 – GENERAL

1.01 SCOPE

A. The Remediation Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary for seeding, planting, mulching, fertilizing, and other incidental activities to establish permanent vegetation on the final cover system and on other disturbed areas of the Site, as specified herein and as shown on the Drawings.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 02120 – Erosion and Sedimentation Control

C. Section 02130 – Clearing, Grubbing, and Stripping

D. Section 02200 – Earthwork

E. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Maine Erosion and Sediment Control Best Management Practices (BMPs)

B. Latest version of Association of Agricultural Chemists standards

C. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 CMI Plan dated January 2016

1.04 SUBMITTALS

A. At least 15 days prior to starting permanent seeding, the Remediation Contractor shall submit the following information to the Remediation Project Manager:

1. proposed seed mix(es), mulch, tackifier, and fertilizer;
2. results of topsoil plant suitability soil analysis;
3. manufacturer's product data and recommended methods of application for seed, mulches, tackifier, and fertilizer; and
4. manufacturer's certificate of compliance for each seed mix. These certificates shall include the seed mixture, guaranteed percentages of purity, weed content, germination of the seed, name of the seller, the test date for the seed, and the net weight and date of shipment.

B. The Remediation Contractor shall notify the Remediation Project Manager a minimum of 15 days prior to starting revegetation activities.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. Revegetation activities will be monitored by the Remediation Project Manager. The Remediation Contractor shall be aware of the activities in the CQA Plan and shall account for these CQA activities in the construction schedule.

B. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of activities set forth in the CQA Plan and this Section.

C. CQA testing or inspections performed by the Remediation Project Manager in no manner relieve the Remediation Contractor of the responsibility to construct all work to conform to the Drawings and Specifications.

D. If quality control or quality assurance tests indicate work does not meet specified requirements, the Remediation Contractor shall remove work, replace, and retest at a cost borne solely by the Remediation Contractor.

PART 2 – PRODUCTS

2.01 SEED MIX

A. The Remediation Contractor shall use the seed mix specified in the drawings or an equivalent seed mix approved by the Remediation Project Manager.

B. Material shall be delivered in uniform packages bearing the name of the manufacturer, the net weight, and a statement of content.

2.02 MULCH

A. Mulch for hydroseeding shall meet the hydraulic mulch requirements set forth in the specifications for Seeding and Mulching in Part A-2 of the Maine Erosion and Sediment Control BMPs.

2.03 FERTILIZER

A. Fertilizer shall be dry or liquid commercial grade slow-release fertilizer uniform in composition that meets the requirements of all State and Federal regulations and standards of the Association of Agricultural Chemists. Fertilizer shall be delivered to the Site in original, properly labeled, unopened, clean, containers each showing the manufacturer's guaranteed analysis conforming to applicable fertilizer regulations and standards. Fertilizer shall be in accordance with the seed manufactures recommendation.

2.04 EROSION CONTROL BLANKET

A. Erosion Control Blanket meeting the requirements set forth in Section 02120 of the project Specifications shall be used.

PART 3 – EXECUTION

3.01 EROSION AND SEDIMENT CONTROL

A. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment controls as required by Section 02120.

3.02 PREPARING SOIL FOR SEEDING

A. Areas to be seeded shall be track-walked or hand raked prior to seeding to loosen the soil. Clods, loose stones, and other foreign material larger than 3 inches in any dimension shall be removed and disposed of by the Remediation Contractor. Gullies, washes, and disturbed areas that develop subsequent to final dressing shall be repaired before they are seeded.

B. Trash, weeds, and other debris that will interfere with seeding operations shall be removed or disposed of as approved by the Remediation Project Manager.

C. Seedbed preparation shall be suspended when soil moisture conditions are not suitable for the preparation of a satisfactory seedbed or at the direction of the Remediation Project Manager.

3.03 APPLYING LIME AND FERTILIZER

A. Lime shall be applied as necessary to achieve a pH in accordance with the seed manufactures recommendation.

B. When dry fertilizer is used, it shall be spread on seeding areas at the time of seeding at a rate of 500 lbs per acre unless otherwise approved by the Remediation Project Manager based on the recommended rate from the topsoil analysis results described on the Drawings. The method of application shall be approved by the Remediation Project Manager before fertilizer is applied. Lime and fertilizer shall be incorporated into the top 2-3 inches of soil.

C. When applied in liquid form or mixed with water, fertilizer shall provide the same value of nutrients per acre as specified for dry fertilizer. Fertilizer applied in liquid form shall be agitated during application.

3.04 APPLYING SEED

A. Permanent seeding shall consist of uniformly applying seed on prepared areas. Seeding shall also be performed in areas that are to be covered with Erosion Control Blanket, unless other recommendations are made by the Erosion Control Blanket manufacturer or the Remediation Project Manager.

B. Permanent seeding shall be applied to all disturbed areas once final grades are achieved, or in areas that will be idle for 30 days or more in general accordance with the requirements set forth for Seeding and Mulching in Part A-2 of the Maine Erosion and Sediment Control BMPs.

C. Seed shall be applied at the rates specified on the Drawings.

D. Overseeding shall consist of applying seed and fertilizer on areas where the initial seeding was not effective as determined at the sole discretion of the Remediation Project Manager.

E. For hydroseeding, seed shall be put in the mixture slowly to result in a uniform mixture before application. Hydroseeding mixtures shall be constantly agitated from the time of mixing until application on the seed bed and used within 8 hours from the beginning of mixing.

3.05 APPLYING MULCH

A. Hydro mulch shall be applied at a minimum rate of 3,000 lb/acre with minimum 1 percent by weights of a stabilizing emulsion or tackifier and applied as a slurry with the seed and fertilizer.

B. Mulch will not be required on areas where erosion control blanket will be placed.

3.06 PROTECTION OF WORK

A. The Remediation Contractor shall inspect the planting area in the spring immediately following completion of the removal activities. Any eroded areas or areas where seeding or Erosion Control Blankets are damaged shall be repaired/replaced by the Remediation Contractor.

B. The Remediation Contractor shall use all means necessary to protect the revegetated areas and all prior work. Maintenance of the seeded areas includes repairing eroded areas, revegetating, watering, and mowing (if applicable). A satisfactory condition of seeded area is defined as a 10,000 square feet section of turf that has no bare spots larger than three square feet and not more than 15 percent of the total area with bare spots larger than 6-inches square. The planted trees and shrubs shall have a survival rate greater than 85 percent throughout the revegetated areas.

C. At least 30 days after the completion of seeding, an inspection will be performed by the Remediation Project Manager, who will judge whether repair of revegetated areas is required.

D. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary at a cost borne solely by the Remediation Contractor.

3.07 ACCEPTANCE

A. The vegetated areas shall be accepted at the end of the warranty period specified in this Section if a satisfactory condition as defined in this Section exists.

3.08 WARRANTY PERIOD

A. Revegetated areas shall be subject to a warranty period of not less than two calendar years from completion of the project and establishment of permanent vegetation over 95 percent of the area at the sole discretion of the Remediation Project Manager.

B. At the end of the warranty period, the Remediation Project Manager will perform an inspection upon written request by the Remediation Contractor. Revegetated areas not demonstrating satisfactory condition of vegetation as outlined above shall be repaired, reseeded, replanted, and maintained to meet all requirements as specified herein at a cost borne solely by the Remediation Contractor.

C. After all necessary corrective work has been completed, the Remediation Project Manager will certify in writing the final acceptance of the revegetated areas.

END OF SECTION

SECTION 13020
EXCAVATION AND SOIL HANDLING

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers, but is not limited to, excavation of soils exceeding the media protection standards (MPS) in the Landfill 2 Area

B. The work shall include, but is not necessarily limited to: temporary stockpiling of soils within the excavation area; transport of soils to the Temporary Soil Stockpile Area; and direct loading of material into rail cars. Materials stockpiled in the Temporary Soil Stockpile Area will be managed and loaded into rail cars by the Remediation Project Manager.

C. Design, construct, and maintain temporary excavation support structures as required to complete the excavations in the dry and in a controlled safe manner.

D. Excavate to the lines and grades shown on the Drawings without over-excavation per the limits defined in Part 3.04 of this Section.

E. All excavation, trenching, sheeting, bracing, etc. shall comply with the requirements of OSHA excavation safety standards (29 CFR PART 1926 Subpart P).

F. The Remediation Contractor shall furnish all labor, materials, tools, supervision, transportation, installation equipment, and incidentals necessary to complete the work specified herein and indicated on the Drawings.

1.02 RELATED SECTIONS

A. Section 01200 – Health and Safety

B. Section 02050 – Air Monitoring

C. Section 02100 – Surveying

D. Section 02120 – Erosion and Sedimentation Control

E. Section 02130 – Clearing, Grubbing, and Stripping

F. Section 02140 – Construction Water Management

G. Section 02200 – Earthwork

H. Section 02920 – Revegetation

I. Section 13030 – Steel Sheet Pile Shoring

1.03 REFERENCES

A. Maine Department of Transportation (Maine DOT) Standard Specifications

B. United States Environmental Protection Agency (USEPA) Publication SW-846, “Test Methods for Evaluating Solid Waste Physical/Chemical Methods”

C. USEPA Test Method 9095B, “Paint Filter Liquids Test”

D. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 Area CMI Plan dated January 2016

E. 29 Code of Federal Regulations (CFR) Part 1926 Subpart P – Safety and Health Regulations for Construction / Excavation

F. 29 CFR Part 1926 Subpart C – Safety and Health Regulations for Construction / General Safety and Health Provisions

G. Soil Use Plan submitted as Appendix J of the Landfill 2 Area CMI Plan dated January 2016

1.04 SUBMITTALS

A. The Remediation Contractor shall submit required plans outlined in the scope of work to the Remediation Project Manager within the required timeframes outlined in the scope of work. Plans shall describe the Remediation Contractor's specific means and methods for obtaining access to the designated areas, surface and groundwater control (including pre-treatment and storage requirements), excavating, relocating excavated materials, direct loading of material into rail cars, and decontamination procedures for all vehicles and equipment associated with this work.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. Contaminated soil, debris, and sediment excavation and relocation activities will be monitored by the Remediation Project Manager as outlined in the CQA Plan and project Specifications.

B. The Remediation Contractor shall be aware of the activities set forth in the CQA Plan and shall account for these activities in the construction schedule.

C. The Remediation Contractor shall assist the Remediation Project Manager in every manner necessary for the proper performance of CQA activities set forth in the CQA Plan.

D. CQA testing or inspections performed by the Remediation Project Manager in no manner relieves the Remediation Contractor of the responsibility to construct all work to conform to the Contract Documents.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Backfill materials shall meet the requirements set forth in the Section 02200.

2.02 EQUIPMENT

A. The Remediation Contractor shall furnish all tools, transportation, installation equipment, and incidentals necessary to complete the work specified herein and indicated on the Drawings.

PART 3 – EXECUTION

3.01 EROSION AND SEDIMENT CONTROL

A. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment control measures in the relevant area(s) of construction.

B. Standard details and requirements representing the minimum erosion and sediment control standards that shall be met by the Remediation Contractor during construction are provided on the Drawings and in Section 02120. However, regardless of any minimum standards, the Remediation Contractor is solely responsible for implementing, and maintaining proper and fully adequate erosion and sediment controls at all times.

3.02 PREPARATION

A. Temporary dewatering and drainage systems for Contact and Non-Contact storm water removal shall be in place in accordance with Section 02140 prior to excavation.

B. The Site shall be cleared, stripped, and grubbed in accordance with Section 02130.

C. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment controls in the relevant area(s) of construction.

D. Construct access/haul roads, as necessary, to get the excavated soil to a soil stockpile and/or load out area.

3.03 LAYOUT

A. General

1. Areas intended for excavation shall be staked by the Remediation Contractor at the soil boring locations indicated on the excavation plans in the Drawings.

2. Locations of the stakes shall be made using surveying instruments and located in reference to established Site survey controls.

3. The Remediation Project Manager reserves the right to make adjustments or revisions in lines or grades, should these be necessary as the work progresses due to: unexpected Site conditions; discrepancies on the Drawings; or in order to obtain satisfactory construction scheduling and/or conditions.

3.04 EXCAVATION

A. General

1. The Remediation Contractor shall perform all excavation, removal and backfilling activities in conformance with the Drawings and the Site-Specific Health and Safety Plan (HASP).

2. During excavation the Remediation Contractor shall:

   a. Establish and maintain appropriate exclusion zones.

b. Minimize personnel exposure by keeping non-essential personnel away from the area and upwind from the excavation site.

c. Perform all excavation, removal, and backfilling activities in a manner as required to allow for completion of the Work as specified in the Drawings.

d. Continually have a Competent Person as defined by 29 CFR 1926.32 (f) observe the excavation area for the signs of stability issues, potential contaminants, debris and potential hazards.

e. Perform work and employ mitigation measures in a manner to ensure that the perimeter air quality achieves the requirements in Section 02050. The Remediation Contractor shall be prepared at all times to immediately employ mitigations measures specified within Section 02050 for the Air Quality Action Levels (Level Green, Yellow or Red). The application of mitigation measures may need to be concurrent with ongoing excavation work to maintain air quality. Additionally, the Remediation Contractor shall anticipate that excavation and soil handling work may have to be curtailed, delayed, or rescheduled until more favorable weather conditions (lower temperatures, lower humidity, wind direction shift, etc.) exist that enable work to proceed within the specified Air Quality Action Levels at a cost solely borne by the Remediation Contractor.

f. The Remediation Contractor shall design excavation sloping and shoring systems for each excavation area per local, state, and federal regulations.

g. Perform excavations in a manner to minimize storm water inflow into excavation areas. Where necessary, the Remediation Contractor shall employ the use of sandbags and/or create diversion swales to redirect storm water flow away from excavations. Sheet piles may extend above the adjacent exterior ground surface to prevent runoff from entering excavations.

h. At all times during construction, the Remediation Contractor shall provide and maintain proper equipment and facilities to remove all water entering the excavation area so as to obtain and maintain satisfactory working conditions.

i. The Remediation Contractor shall be responsible for maintaining the water level in the excavation area at least 1 foot below the excavation surface as determined at the sole discretion of the Remediation Project Manager.

3. Materials posed for re-use as backfill shall be stockpiled on clean, bare ground or as directed by the Remediation Project Manager. Re-used material shall be used as in accordance with the Soil Use Plan.

4. Temporary soil stockpiles (materials for reuse) shall be constructed in such a way as to be stable against collapse and provide for infiltration of drainage water and runoff into the surrounding soil. Stockpiles shall be equipped with perimeter and surficial erosion control measures as presented in the Construction Documents and as required by, local, state and federal regulations.

5. Temporary soil stockpiles (contaminated materials for disposal) shall be constructed in such a way as to be stable against collapse and provide measures for shedding or

collecting stormwater runoff. Stockpiles shall be equipped with perimeter and surficial erosion control measures as presented in the Construction Documents and as required by, local, state and federal regulations. Temporary stockpiles shall not be located in areas already excavated.

6. Soils being excavated shall be visually inspected for the presence of elemental mercury or drum carcasses. If any elemental mercury or drum carcasses are observed during excavation or handling, the Remediation Project Manager shall be notified immediately, and the materials segregated and handled as follows:

    a. Excavated soils visually observed to contain elemental mercury or soils excavated from areas delineated on the Drawings to contain elemental mercury shall be stockpiled separately from other soils exceeding 2.2 mg/kg mercury for disposal purposes.

7. Upon completion of each day's excavation or completion of each subarea, the excavated area shall be measured and recorded by the Surveyor for development of As-Built Drawings and volume measurements.

8. The Remediation Contractor shall coordinate the submission of as-built survey information with the Remediation Project Manager for review and confirmation of final excavation bottom elevations prior to any placement of backfill. The Remediation Contractor shall notify the Remediation Project Manager at least one full working day prior to work of backfilling in an area or subarea.

B. Excavation and Backfilling

1. Excavate and backfill areas to the lines and grades as shown on the Drawings.

    a. Soils with mercury concentrations of less than 2.2 mg/kg of mercury are to remain on-site for reuse and shall be stockpiled in locations approved by the Remediation Project Manager.

    b. Excavated soils with mercury concentrations of 2.2 mg/kg or greater will be transported for direct loading into gondola cars or to the Temporary Soil Stockpile Area for offsite disposal or loading into disposal trucks. The Remediation Contractor shall prevent contamination of previously excavated areas in the Landfill 2 Area when transporting material to the Temporary Soil Stockpile Area.

    c. The Remediation Contractor shall avoid dropping clumps of contaminated soil and/or debris from the haul trucks when travelling between the excavation areas and temporary storage areas. Material spilled during movement shall be immediately collected and transported to the appropriate storage area.

2. The Remediation Contractor shall excavate and manage excavated soils on site such that they shall meet the Paint Filter Liquids Test (USEPA Test Method 9095B) at the disposal site without loss of liquids in transit. Remediation Contractor shall generally maintain excavation areas with sheet piling where necessary, dewatering, and/or staging such that excavated materials meet the paint filter liquids test prior to removal from the excavation area.

3. The intent of the work is to excavate the subareas shown on the Drawings without over-excavation. The Remediation Contractor shall execute the work to minimize over-excavation beyond the limits shown on the drawings. The Remediation Contractor shall execute the excavations in a manner that shall assure that the surveyed bottoms of the excavations shall be at the excavation bottom elevations shown on the drawings or lower, and within the vertical excavation tolerances presented in Section 02100.

4. The Remediation Contractor may install temporary shoring or cut slopes of the excavation subareas such that the total quantity excavated does not exceed the quantity shown on the Drawings.

5. The excavation horizontal limits (defined as the edge of cut soil face or innermost exposed sheet pile face) shall be between the horizontal coordinates shown on the Drawings within the tolerances presented in Section 02100. The Remediation Contractor shall determine if using a template for the sheet pile installation will be required to achieve this accuracy.

6. Backfill the Landfill 2 Area with Common Fill Type I per Section 02200 and the last 6 inches shall be backfilled with Topsoil (as detailed in Section 02200) material as shown on the Drawings.

3.05 HANDLING OF WASTE FOR LOAD OUT AND TRANSPORT

A. Off-site transport and disposal shall be performed by the Remediation Project Manager's transportation and disposal subcontractor. The Remediation Contractor is responsible for the handling and pretreatment of waste materials (i.e., dewatering and loading) for off-site disposal.

B. Soils to be removed from the Site shall be direct loaded by the Remediation Contractor into containers provided by the transportation and disposal subcontractor, as permitted by the appropriate local, state and federal authorities, and as required by the operations of the approved disposal facility.

C. Each container load shall be shipped with its own specific Chain of Custody Form which shall accompany the container from the time that it is loaded, en-route to its destination and when it arrives and is accepted by the receiving facility for disposal. The Remediation Project Manager will be acting as agent for the Owner and sign the Chain of Custody Form. The Remediation Contractor and the transportation and disposal subcontractor shall coordinate loading and shipping each container with the Remediation Project Manager to ensure that each container is shipped with a Chain of Custody.

D. The Remediation Contractor shall ensure that free water is removed from waste materials prior to transport. Solidifying agents (i.e. lime, Portland cement, etc.) shall not be added to the material prior to off-site disposal unless approved by the Remediation Project Manager.

E. The Remediation Project Manager will manage the container interior liner and/or tarp covering system while on site to ensure the liners are in place prior to loading and that each container is properly covered with the supplied tarp or other cover system to secure

the contents of the container during transport. The Remediation Project Manager will supply the tarps.

F. The Remediation Project Manager will provide labor required for maintaining and operating scales to weigh each loaded gondola or truck prior to exiting the Site. The scales will be provided by the Remediation Project Manager.

G. The Remediation Contractor shall load containers arriving at the Site so that waste materials are removed from the Site in an approved manner as quickly as possible, taking account of project scheduling restraints, on-site temporary storage capacity. The Remediation Contractor shall be responsible for having at least 750 tons per day of stockpiled soil ready for transport at the start of each Work Day morning. The containers shall be loaded within two hours of the scheduled load time determined by the Remediation Project Manager. If a scheduled intermodal is not loaded within the 2 hour time period, the Remediation Contractor will be responsible for demurrage charge.

H. If rail cars are not available for direct loading the Remediation Project Manager will direct the Remediation Contractor to place the material in the Temporary Soil Stockpile Area. The Remediation Project Manager will be responsible for managing soils within the Temporary Soil Stockpile Area and loading material from the Temporary Soil Stockpile Area into the rail cars.

3.06 DECONTAMINATION

A. All equipment and materials used during excavation and handling of the site materials with greater than 2.2 mg/kg mercury shall be decontaminated per Section and other Contract Documents prior to leaving the site or used in work in non-contaminated areas or other areas with less than or equal to 2.2 mg/kg mercury contamination on the Site.

3.07 SURVEYING

A. The Remediation Contractor shall coordinate as-built survey of the excavation extents with the Surveyor. All surveying shall be performed in accordance with Section 02100.

B. The Remediation Contractor shall monitor the railroad lines for lateral and vertical, and differential deflection to excavation operations. The active railroad lines adjacent to the excavation shall be surveyed daily basis when there is an open excavation within 5 horizontal to 1 vertical projection laterally off the edge of tracks. Surveying shall be performed every 25 ft along the railroad alignment at survey markers located within 5 ft of the railroad centerline. If greater than 1/8 inch of total movement is observed relative to the baseline survey, nearby excavation work shall be stopped and the Remediation Project Manager shall be notified.

3.08 PROTECTION OF WORK

A. The Remediation Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary at a cost borne solely by the Remediation Contractor.

END OF SECTION

SECTION 13030
STEEL SHEET PILE SHORING

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers the design and installation of temporary steel sheet pile shoring wall (shoring wall) for the purpose of earth retention within the excavation area for Landfill 2.

B. The work shall include, but is not necessarily limited to: design, construct, and maintain temporary excavation support structures as required to complete the excavation in a controlled safe manner.

C. The Remediation Contractor shall furnish all labor, materials, tools, supervision, transportation, installation equipment, and incidentals necessary to complete the work specified herein and indicated on the Drawings.

D. The Remediation Contractor shall provide the Remediation Project Manager with all required submittals two weeks prior to the start of work.

1.02 RELATED SECTIONS

A. Section 01001 – Definition of Terms

B. Section 01200 – Health and Safety

C. Section 01300 - Submittals

D. Section 02050 – Air Monitoring

E. Section 02100 – Surveying

F. Section 02120 – Erosion and Sediment Control

G. Section 02140 – Construction Water Management

H. Section 02200 – Earthwork

I. Section 13020 – Excavation and Soil Handling

1.03 REFERENCES

A. Maine Department of Transportation (Maine DOT) Standard Specifications

B. Construction Quality Assurance (CQA) Plan submitted as Appendix H of the Landfill 2 Area CMI Plan dated January 2016

C. 29 Code of Federal Regulations (CFR) Part 1926 Subpart P – Safety and Health Regulations for Construction / Excavation

D. 29 CFR Part 1926 Subpart C – Safety and Health Regulations for Construction / General Safety and Health Provisions

E. Drawings, entitled Landfill 2 Corrective Measures Implementation Plan, dated January 2016.

F. American Society for Testing and Materials (ASTM) standards:

1. ASTM A 36 Standard Specification for A36 Carbon Structural Steel
2. ASTM A 572 Standard Specification for A572 High-Strength Low-Alloy Columbium-Vanadium Structural Steel.

1.04 SUBMITTALS

A. The Remediation Contractor shall submit a shoring wall design package to the Remediation Project Manager for review a minimum four weeks prior to the start of work. The design package shall include calculations including: geotechnical parameters for wall design, earth pressure diagrams, calculations for wall shear forces, bending moments, calculated wall deflection, and required embedment for all load cases. Provide computer output and/or hand calculations.

B. The Remediation Contractor shall submit the design shoring wall drawings (shoring wall drawings) to the Remediation Project Manager for review a minimum two weeks prior to the start of work. The shoring wall drawings shall include plan, elevation, and section views of the wall, with details to illustrate the work.

C. No work or ordering of materials for the shoring wall shall be done until the submittals have been approved.

1.05 EXISTING CONDITIONS

A. Prior to beginning work, the Remediation Contractor shall become familiar with the Site, including railway and utility locations. The Remediation Contractor is responsible for contacting a utility location service to verify the location of underground utilities before starting work.

B. The remediation Contractor shall review all available subsurface data as provided in the CMI Plan.

1.06 CONSTRUCTION QUALITY ASSURANCE

A. The Remediation Contractor shall be aware of the activities set forth in the CQA Plan for the Project and shall account for these activities in the construction schedule.

B. CQA testing or inspections performed by the Remediation Project Manager in no manner relieves the Remediation Contractor of the responsibility to construct all work to conform to the Contract Documents.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Backfill materials shall meet the requirements set forth in the Section 02200.

B. Steel sheet piles shall conform to ASTM A572 Grade 50 steel.

C. Steel plates and miscellaneous shapes shall be new, hot-rolled plates and shapes conforming to ASTM A36 and ASTM A572, as required by application.

D. Welding, if required, shall use E70XX electrodes.

2.02 EQUIPMENT

A. The Remediation Contractor shall furnish all tools, transportation, installation equipment, and incidentals necessary to complete the work specified herein and indicated on the shoring wall drawings.

PART 3 – DESIGN CRITERIA

3.01 GENERAL

A. The Remediation Contractor shall provide a design of the shoring wall, prepared and sealed by a professional engineer licensed to work in the state of Maine.

B. The shoring wall shall be constructed from interlocking steel sheet piles.

C. The design shall follow local, state, and federal regulations.

3.02 DESIGN LOADINGS REQUIREMENTS

A. The shoring wall shall be designed to resist maximum anticipated loadings calculated for the effects of earth pressures, water pressures, railway loading, and live load and dead loads from construction equipment or materials. Railway loading shall be Cooper E80 loading.

3.03 DESIGN CRITERIA

A. The design target factor of safety for global stability of the wall is 1.3. The target factor of safety for wall embedment is 1.5.

B. The maximum allowable lateral deflection of the wall is 0.5 inches for a shoring wall constructed along a railroad alignment. Remediation Contractor shall survey monitoring points throughout construction to confirm design.

C. The structural design for the sheet pile shall incorporate a FS value of 1.5 for allowable stresses in the sheet pile.

PART 4 – EXECUTION

4.01 PREPARATION

A. Temporary dewatering and drainage systems for Contact and Non-Contact storm water removal shall be in place in accordance with Section 02140 prior to excavation.

B. The Site shall be cleared, stripped, and grubbed in accordance with Section 02130.

C. Prior to implementing any of the work described in this Section, the Remediation Contractor shall install all erosion and sediment controls in the relevant area(s) of construction in accordance with Section 02120.

D. Construct access/haul roads, as necessary, for pile driving and other equipment and any necessary material or equipment storage areas.

4.02 LAYOUT

A. The shoring wall alignment shall be staked by the Remediation Contractor per the shoring wall drawings.

B. Locations of the stakes shall be made using surveying instruments and located in reference to established Site survey controls.

C. The Remediation Project Manager reserves the right to make adjustments or revisions in lines or grades, should these be necessary as the work progresses due to: unexpected Site conditions; discrepancies on the Drawings; or in order to obtain satisfactory construction scheduling and/or conditions.

4.03 SHORING WALL INSTALLATION

A. The shoring wall shall consist of continuous interlocking sheet piles driven in place. The sheet piles shall be placed at the locations shown on the shoring wall drawings and shall not deviate more than 1 ft along the horizontal alignment of the wall.

B. The sheet piles shall be advanced to the specified minimum tip elevation shown on the shoring wall drawings. The Remediation Contractor shall select a sheet pile section that satisfies all design criteria and does not become damaged during installation. The Remediation Contractor shall select a driving method and pile driving ancillary equipment consistent with the expected ground conditions at the site. The interlocks between adjacent sheet piles shall not be damaged. Equipment shall be used to permit the impact energy to be distributed over the tops of the sheet pile.

C. The Remediation Contractor shall provide any corrective measures for any wall that does not meet the tolerance requirements described in this specification. Any proposed corrective measures must be approved by the Remediation Project Manager in writing.

4.04 DECONTAMINATION

A. All equipment and materials used during construction of the shoring wall that may have come into contact with site materials with greater than 2.2 mg/kg mercury shall be decontaminated per Section and other Contract Documents prior to leaving the site or used in work in non-contaminated areas or other areas with less than or equal to 2.2 mg/kg mercury contamination on the Site.

4.05 SURVEYING

A. The Remediation Contractor shall coordinate as-built survey of the alignment of the shoring wall with the Surveyor. All surveying shall be performed in accordance with Section 02100.

B. For a shoring walls within 50 ft of a railroad, the Remediation Contractor shall install a vertical alignment of survey markers every 50 ft along the shoring wall alignment at the top of the wall to monitor displacements. The Remediation Contractor shall perform daily surveys of the survey markers. If the surveyed displacement of the shoring wall equals or exceeds 0.5 inches at any survey markers, the Remediation Contractor shall stop all nearby excavation work and notify the Remediation Project Manager.

4.06 PROTECTION OF WORK

A. The Remediation Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage to the work of this Section or all other Sections of the project Specifications, the Remediation Contractor shall immediately make all repairs and replacements necessary at a cost borne solely by the Remediation Contractor.

END OF SECTION

APPENDIX H

Construction Quality Assurance Plan

DRAFT

Landfill 2
Construction Quality Assurance Plan

Orrington Remediation Site

Orrington, Maine

Prepared by:

CDM Smith, Inc.
25 Industrial Ave.
Chelmsford, MA 01824

Geosyntec Consultants, Inc.
289 Great Road, Suite 105
Acton, MA 01720

Mallinckrodt US LLC

January 2016

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Section 1.
Introduction

1.1 Purpose of CQA Plan

This Construction Quality Assurance (CQA) Plan, herein referred to the CQA Plan, establishes the quality assurance monitoring and documentation procedures that will be used during the Landfill 2 Corrective Measures Implementation activities at the Orrington Remediation Site (Site) in Orrington, Maine. The CQA program set forth in this document shall be used by the Remediation Project Manager and the CQA Engineer to verify that the Corrective Measures Implementation (CMI) is accomplished in accordance with the requirements of the CMI Plan, including the design drawings, specifications, and other applicable construction documents.

1.2 CQA and Construction Quality Control

The CQA Plan is a site-specific document that addresses the following: (i) the CQA Engineer responsibilities and authorities; (ii) monitoring and testing activities that will be performed during construction; and (iii) CQA documentation requirements. In the context of this CQA Plan, CQA and Construction Quality Control (CQC or QC) are defined as follows:

- CQA refers to means and actions employed by the CQA Engineer to assure conformity of the Landfill 2 remediation in accordance with the requirements of the CMI Plan and Contract Documents (i.e., drawings, specifications and this CQA Plan).
- CQC (or QC) refers to those actions taken by the Remediation Contractor, Sub-Contractors, Manufacturers, or Suppliers, including their designated representatives, to ensure that the materials and the workmanship meet the requirements of the design, specifications and other applicable Contract Documents.

1.3 Roles and Responsibilities

1.3.1 Organization of Personnel

The CQA organizational structure is provided in Figure 1. The duties, responsibilities, and authorities of the entities and personnel positions identified in this figure as they relate to the CQA program are described below.

As shown on Figure 1, in some cases the entities are not yet identified (i.e., still need to be determined (TBD)). The CQA Engineer will issue updated project personnel organization charts that name the responsible individuals and their affiliation after completion of the Landfill 2 CMI procurement activities.

1.3.2 Regulatory Agency

Oversight of the remediation requirements at the Site will be conducted by the Maine Department of Environmental Protection (Maine DEP). The Maine DEP will review and approve the Landfill 2CMI Plan as well as CMI plans for other remediation areas at the Site.

1.3.3 Owner

The Owner of the Site is Mallinckrodt US LLC (Mallinckrodt). Mallinckrodt is responsible for the completion of the Corrective Measures and has contracted with CDM Smith Inc. (CDM Smith) to serve as the Remediation Project Manager for the Site.

1.3.4 Remediation Project Manager

The Remediation Project Manager will retain a Remediation Contractor(s) to implement the Contract Documents in accordance with the approved CMI Plan. Additionally, the Remediation Project Manager will retain a CQA Engineer to verify the remediation activities are completed per the approved CMI Plan and Contract Documents.

1.3.5 Remediation Contractor

The Remediation Contractor(s) have not yet been selected (TBD). The scope of the Remediation Contractor's activities is to construct and perform the work to satisfy the CMI Plan as set forth in the Contract Documents (drawings, specifications, plans, contract terms and conditions, etc.).

1.3.6 CQA Engineer

Geosyntec will serve as the CQA Engineer. As such, the CQA program will be directed and supervised by Geosyntec. The CQA Engineer will be directly accessible to Mallinckrodt and the Remediation Project Manager for technical direction during construction. The responsibilities and duties of the CQA Engineer include the following:

- be familiar with the designs calculations used to develop the CMI Plan;
- review conformance of material and construction to verify compliance with the intent of the requirements of the CMI Plan and Contract Documents;
- be familiar with other site-specific documentation, including the Remediation Contractor's bid;
- conduct periodic Site inspections;
- participate in project meetings as set forth specified in Section 1.5 of this CQA Plan;
- perform daily CQA activities (e.g., review field reports, and interact with the Remediation Contractor on a frequent basis);
- prepare and keep field CQA documentations;
- oversee the ongoing preparation of as-built drawings by the Remediation Contractor;
- review the Remediation Contractor Surveyor's work products;
- verify the calibration and conditions of on-site CQA equipment, if any;
- assign locations for testing and CQA sampling and testing;
- coordinate collection and shipping of laboratory test samples to the CQA laboratories;
- review and report results of laboratory testing and Manufacturer and Contractor testing;
- review the Remediation Contractor's submittals;
- report any unresolved deviations from the CMI Plan and Contract Documents;

- observe that erosion and sediment controls are in place and performing properly;
- oversee the ongoing preparation of as-built drawings by the Remediation Contractor; and
- prepare and certify (P.E. stamp) the Final CQA Report.

1.3.7 Soils CQA Laboratory

The Soils CQA Laboratory will be a geotechnical testing laboratory firm that has experience in the physical testing of soils, and is familiar with, and properly equipped to perform the geotechnical testing required by the CQA Plan. The Soils CQA Laboratory will be the CDM GTS Laboratory in Somerville, Massachusetts.

1.3.8 Analytical CQA Laboratory

The Analytical CQA Laboratory will be an analytical testing laboratory firm that has experience in the chemical testing of soils, and is familiar with, and properly equipped to perform the analytical testing required by the CQA Plan. Mercury testing will be performed by the on-site Geosyntec laboratory and other analytical testing will be performed by the Analytical CQA Laboratory, Alpha Analytical Testing in Westborough, Massachusetts.

1.4 Applicable References

Organizations whose standards are referenced in the CQA Plan and the project specifications are as follows:

- ASTM: American Society for Testing and Materials;
- GSI: Geosynthetic Institute;
- OSHA: Occupational Safety and Health Administration;
- Maine DEP: Maine Department of Environmental Protection; and
- Maine DOT: Maine Department of Transportation.

Any reference to standards of any society, institute, association, or governmental agency will pertain to the edition in effect as of the date of this CQA Plan unless stated otherwise.

1.5 Project Meetings

1.5.1 Pre-Construction Meeting

Prior to initiating construction activities at the Site, a Pre-Construction kick-off meeting will be held by the Remediation Project Manager. At a minimum, the meeting will be attended by the Remediation Project Manager, Remediation Contractor, and the CQA Engineer. The meeting may also be attended by representatives of the Maine DEP and the Owner.

The purpose of this meeting is to begin planning for coordination of tasks, to present the schedule and sequence of work, to discuss anticipated problems that might cause difficulties and delays in construction, and present the procedures for clarifications and changes to the Final Design and Contract Documents.

The Pre-Construction meeting should include discussion of the following activities:

- review the responsibilities of each party;
- confirm the official versions of all Contract Documents that shall be used for the Landfill 2 construction, update/finalize the project personnel organization charts, and establish lines of authority and communication;
- review critical design details of the project;
- establish an understanding by the parties of the CQA Plan as compared to the specifications, and CQA and CQC procedures;
- establish work area security and safety protocol in accordance with the Remediation Contractor's health and safety plan;
- describe soil borrow source locations and haul routes;
- establish soil and other material stockpiling and equipment staging locations;
- confirm the methods for documenting and reporting, and for distributing documents and reports;
- discuss the procedure that will be followed to request, evaluate, approve, and issue clarifications or changes to the design or specifications;
- confirm acceptance and approval process for task completion prior to schedule sequence advancement; and
- establish procedures for processing applications for payment.

Items discussed during the Pre-Construction meeting will be documented by a person designated at the beginning of the meeting, and minutes will be distributed after the meeting.

1.5.2 Progress Meetings

A progress meeting (via teleconference and/or at the Site) will be held each week (at a minimum) during construction between the Remediation Contractor, CQA Engineer, and Remediation Project Manager. Topics covered at the progress meetings will normally include: Health & Safety; status of work performed to date; planned activities for upcoming work; status of submittals, field clarifications, and design changes; community relations; and general open discussion. Matters requiring action raised in the progress meetings will be communicated to the appropriate parties. Minutes of the progress meetings will be distributed to each party present at the meeting promptly after each meeting by the Remediation Project Manager. These minutes of the weekly progress meetings will also serve as weekly field summaries throughout the remediation construction.

Daily progress meetings will be held on most days between the CQA Engineer, Remediation Project Manager, and the Remediation Contractor prior to the start of work in the mornings or at the end of each day. The purpose of these meetings will be to discuss health & safety topics, review the previous day's activities, review the upcoming day's activities, and identify prerequisite activities or potential foreseen construction challenges. Major items discussed during the daily meetings will be documented in the CQA Engineer's daily field reports.

Section 2. Documentation

The remedial action, construction, sampling, and inspection activities will be documented as described in the following sections.

2.1 Daily Field Reports

The CQA Engineer will prepare daily field reports. The reports will provide a daily record of construction progress, summarize assurance activities, and highlight matters requiring the Remediation Contractor's action. The daily reports will be filed and a copy maintained in a bound logbook that is kept on-site.

The daily report will typically include the following items:

- Project name, location, and date;
- Weather conditions (temperature, wind, and precipitation);
- Construction activity underway;
- Equipment, personnel, and work at each unit;
- Materials delivered and used;
- Compliance with design requirements (e.g., specifications and drawings);
- Measures taken to secure the Site;
- Records of CQA data or measurements obtained;
- Items requiring action and resolution;
- Names of Site visitors;
- Meetings;
- Laboratory reports on testing material, equipment, etc.;
- Photographs taken; and
- Field modifications.

2.2 Field Change Form

Changes to the design will require approval by the Remediation Project Manager the CQA Engineer, and, the Maine DEP. The field change form will include the description and the reason for the field change, the date, and signatures of the relevant parties. Material substitutions may not be considered to be field changes if such changes are approved by the Remediation Project Manager and the CQA Engineer as part of the technical submittal review process.

2.3 CQA Final Report

Upon completion of the work, the CQA Engineer will submit a CQA Final Report to the Owner and the Remediation Project Manager for their review. This report will certify that the work was performed in compliance with the Contract Documents (as amended by any field changes that were properly authorized and implemented). Supporting documentation/information will be provided as appendices to the CQA Final Report. At a minimum, this report will include: (a) a narrative of the construction activities; (b) CQA observation logs and CQA test data sheets; (c) QC logs and test data sheets from the Remediation Contractor (d) a summary of changes from the design and specifications; (e) record (as-built) drawings; and (f) a summary statement sealed and signed by a Professional Engineer licensed in the State of Maine certifying that the corrective measures were constructed in accordance with the Contract Documents as amended by any approved clarifications or changes. The CQA Final Report will be submitted to the Maine DEP within 45 days after completion of construction.

Section 3.
Construction Quality Assurance

CQA testing will be performed to confirm that the corrective measures were implemented in accordance with the Contract Documents. Additionally, QC testing will be conducted by the Remediation Contractor and reviewed on an on-going basis by the CQA Engineer. The requirements, testing methods, and frequencies of QC testing are presented in the project specifications. The CQA Engineer will conduct QA testing at frequencies presented in Tables 1 and 2, and as further discussed below.

3.1 Pre-Construction Qualifying of Material Sources

Prior to applicable aspects of the construction, the Remediation Contractor will be required to provide initial material QC information (i.e., certification(s), analytical data, QC test results, data sheet, and/or shop drawings from the suppliers/manufactures) and/or samples of proposed materials as set forth in the Contract Documents. The CQA Engineer will examine the provided QC information and/or samples of the proposed material(s) to verify that the property values meet the project requirements.

If, during Pre-Construction qualifying, a sample fails to meet the requirements of the project specifications, the CQA Engineer will notify the Remediation Contractor. Use of the material will not be allowed unless the material is prequalified by further tests or otherwise accepted by the Remediation Project Manager and the CQA Engineer. Additional tests, if necessary, will be coordinated by the CQA Engineer at the Remediation Contractor's expense.

3.2 Site Preparation

CQA monitoring activities for site preparation will include verification and documentation of the following:

- erosion and sediment controls are in-place prior to the start of clearing, grubbing, and stripping and that they are maintained throughout construction;
- access road(s) are constructed in accordance with the Contract Documents;
- trees, brush, and stumps are shredded, chipped, or otherwise reduced in size for proper handling, reuse, and/or disposal in pre-authorized areas;
- minimal disturbance to surrounding areas (e.g., outside the limit of work) occurs during clearing and grubbing activities, and that any such areas are properly addressed/restored by the Remediation Contractor;
- contaminated soil, sediment, stripped topsoil, grubbing material and other materials are handled and disposed of in accordance with the Contract Documents; and
- the location and configuration of stockpile areas are in compliance with the Contract Documents and that different materials are stockpiled separately.

3.3 Erosion and Sediment Control

The CQA Engineer will observe the Remediation Contractor's work activities and will verify that prior to initiating work in any given area, erosion and sediment controls, as set forth in the Contract

Documents have been installed. The CQA Engineer will routinely verify that the Remediation Contractor keeps the Site free from excessive sediment and in as neat a condition as possible. This includes the project area, haul roads, borrow areas, stockpile areas, Site entrance roads, and nearby waterways. The CQA Engineer will routinely observe that the Remediation Contractor's erosion control system is in adequate condition and is not releasing excess amounts of sediment from the Site.

The CQA Engineer will perform regular Erosion and Sediment Control inspections and complete the Erosion and Sediment Control Inspection Form included in Attachment A. Inspections will include, but not be limited to the sump and pumping systems and asphalt surfaces within the temporary soil stockpile area and other sediment controls indicated on the Erosion and Sediment Control Inspections Figures in Attachment A. Inspections will be performed weekly and after a major rain event resulting in greater than 0.25 inches of rain.

3.4 Earthwork

3.4.1 Material Quality Assurance Testing

During construction, the CQA Engineer will verify that the physical properties of the soil materials meet the specified material properties. The CQA Engineer will obtain samples for testing from either the Remediation Contractor's borrow source, on-site stockpiles, or trucks as they unload material at the Site. The laboratory test methods and frequencies required for CQA testing are given in Table 1.

If a sample fails a CQA test, the CQA Engineer will notify the Remediation Contractor and use of the material represented by that sample will not be allowed. Additional tests or replacement of the material will be coordinated by the CQA Engineer at the Remediation Contractor's expense, or the Remediation Contractor will use material from a different source that meets the required properties.

3.4.2 Field Evaluation/Monitoring of Construction Techniques

The CQA Engineer will monitor and document the earthwork activities during construction. Monitoring the earthwork will include the following:

- monitoring the thickness of lifts as loosely placed and as compacted at the frequency presented in Table 2;
- documenting the construction equipment used to place and compact the material;
- observing the action of the compaction and heavy hauling equipment on the construction surface (i.e., penetration, cracking, etc.) to detect inadequate compaction;
- monitoring material placement techniques to verify that underlying materials (e.g., geosynthetics, pipes, etc.) are not damaged;
- observing installation of stormwater management system components; and
- observing installation of vegetation.

3.4.3 Field Testing

Field testing (i.e., density and moisture content testing and thickness verification) of placed/compacted soil layer will be performed by the CQA Engineer during construction to evaluate the Remediation Contractor's work product with respect to the requirements of the Contract Documents. The test methods and frequencies for CQA field testing are given in Table 2. Sampling and test locations will be selected by the CQA Engineer.

A special testing frequency will be used at the discretion of the CQA Engineer when visual observations of construction performance or Site conditions indicate a potential problem. Additional testing for suspected areas will be considered when:

- the degree of compaction is doubtful;
- the compactor rollers slip during rolling operations;
- the lift thickness is greater than specified;
- the material is at too dry, too wet, and/or highly variable in moisture content;
- dirt or mud has clogged the rollers used to compact the material;
- the fill materials differ substantially from those specified;
- adverse weather conditions occur;
- breakdown of equipment occurs; or
- the material fails to meet the requirements of the Contract Documents.

3.5 Excavation and Backfilling

3.5.1 Field Monitoring of Excavation

The CQA Engineer will monitor and document the removal of soils exhibiting concentrations above the Media Protection Standards (MPS). These CQA activities will include the following:

- documenting the construction equipment used for excavation;
- monitoring excavation limits to ensure that the materials exceeding the MPS parameters are removed;
- visually inspecting the excavation areas for elemental mercury;
- collecting post-excavation confirmation samples for mercury;
- reviewing survey monitoring data of the railroad spur and mainline adjacent to the excavation; and
- reviewing the Remediation Contractor's as-built survey of the excavation limits.

3.5.2 CQA Activities for Backfilling

The CQA Engineer will monitor and evaluate the Remediation Contractor's proposed backfill material(s) and backfilling activities in accordance with Contract Documents.

3.6 Revegetation

3.6.1 Erosion Control Blanket

During shipment and storage, the CQA Engineer will verify that the Remediation Contractor has kept the erosion control blanket off the ground and protected the erosion control blanket from direct sunlight, precipitation or other inundation, excessive heat or cold, mud, dirt, dust, puncture, cutting, or any other damaging or deleterious conditions.

The CQA Engineer will observe rolls upon delivery at the Site. Any damaged rolls will be rejected by the CQA Engineer and required to be repaired or replaced by the Remediation Contractor.

The CQA Engineer will verify that the Remediation Contractor has handled the erosion control blanket in such a manner as to ensure the erosion control blanket is not damaged. The CQA Engineer will verify compliance with the following:

- immediately prior to erosion control blanket placement, the subgrade is smooth and visibly free of ruts, rocks, protrusions, or other obstructions that will damage the erosion control blanket;
- seed, fertilizer, and lime (as required) is applied to areas receiving erosion control blanket prior to erosion control blanket placement;
- erosion control blanket is securely anchored in the embedment trench and that the embedment trench is properly backfilled and compacted, according to Manufacturer's recommendations and/or as requested by the CQA Engineer;
- in the presence of wind, erosion control blanket is weighted with sandbags (or equivalent ballast weight approved by the Remediation Project Manager and the CQA Engineer), and that sandbags remain until the erosion control blanket is properly fastened using the required staking (i.e., stapling) pattern given by Manufacturer's recommendations and/or as requested by the CQA Engineer;
- seams are properly overlapped and fastened, according to Manufacturer's recommendations and/or as requested by the CQA Engineer; and
- a visual examination of the erosion control blanket is carried out after installation to verify that no potentially harmful foreign objects such as tools or debris are present.

3.6.2 Permanent Seeding

The CQA Engineer will monitor and document the application of permanent seeding including the following:

- verifying that the proper type and proportions of seed mix, fertilizer, lime (if needed) and mulch are used by visually observing mixing/placement and randomly obtaining information printed on selected seed bags and fertilizer bags used in the mix;
- verifying that the soil surface to be seeded is prepared in accordance with the project specifications; and
- observing seeding operations to verify complete coverage and timely application.

As described in the project specifications, in areas where vegetative growth has not been established to the satisfaction of the CQA Engineer within the specified time period, the area will be reworked and re-seeded by the Remediation Contractor, if necessary.

Section 4.
Deficiencies, Problems, and Repairs

If a deficiency or noncompliance is discovered, the CQA Engineer will promptly evaluate the extent and nature of the defect. The extent of the deficient area will be evaluated by additional tests, observations, a review of records, or other means deemed appropriate.

After defining the extent and nature of a defect, the CQA Engineer will notify the Remediation Project Manager and Remediation Contractor to discuss the situation with the Remediation Contractor and to schedule appropriate retests after the work deficiency is corrected.

The CQA Engineer will confirm that the Remediation Contractor corrects the deficiency to the satisfaction of the Remediation Project Manager and the CQA Engineer. If a project specification criterion cannot be met or unusual weather conditions hinder work, then the Remediation Project Manager and CQA Engineer will review/approve alternative solutions as proposed/presented by the Remediation Contractor. The CQA Engineer shall verify that the deficiency has been corrected by the Remediation Contractor before any additional work is performed by the Remediation Contractor in the area of the deficiency.

Table 1. Material CQA Testing Requirements for Earthwork

TEST	METHOD	MINIMUM FREQUENCY OF TESTING
Particle Size Analysis(1)(4)(5)(6)	ASTM D 422	1 per 10,000 yd^3
Moisture Content(1)(2)(4)	ASTM D 2216	1 per 10,000 yd^3
Standard Proctor(1)(2)(4)(6)	ASTM D 698	1 per 10,000 yd^3
pH(3)	ASTM D 2976	1 per 10,000 yd^3
Organic Content(3)	ASTM D 2974	1 per 10,000 yd^3

Notes:

(1) Common Fill Type 1
(2) On-site re-used material
(3) Topsoil
(4) Structural fill
(5) ¾-in. stone
(6) Dense graded Gravel
(7) All tests on this table are to be performed a minimum of once per source.
(8) Particle size of riprap will be visually checked on-site by the Remediation Project Manager as needed.

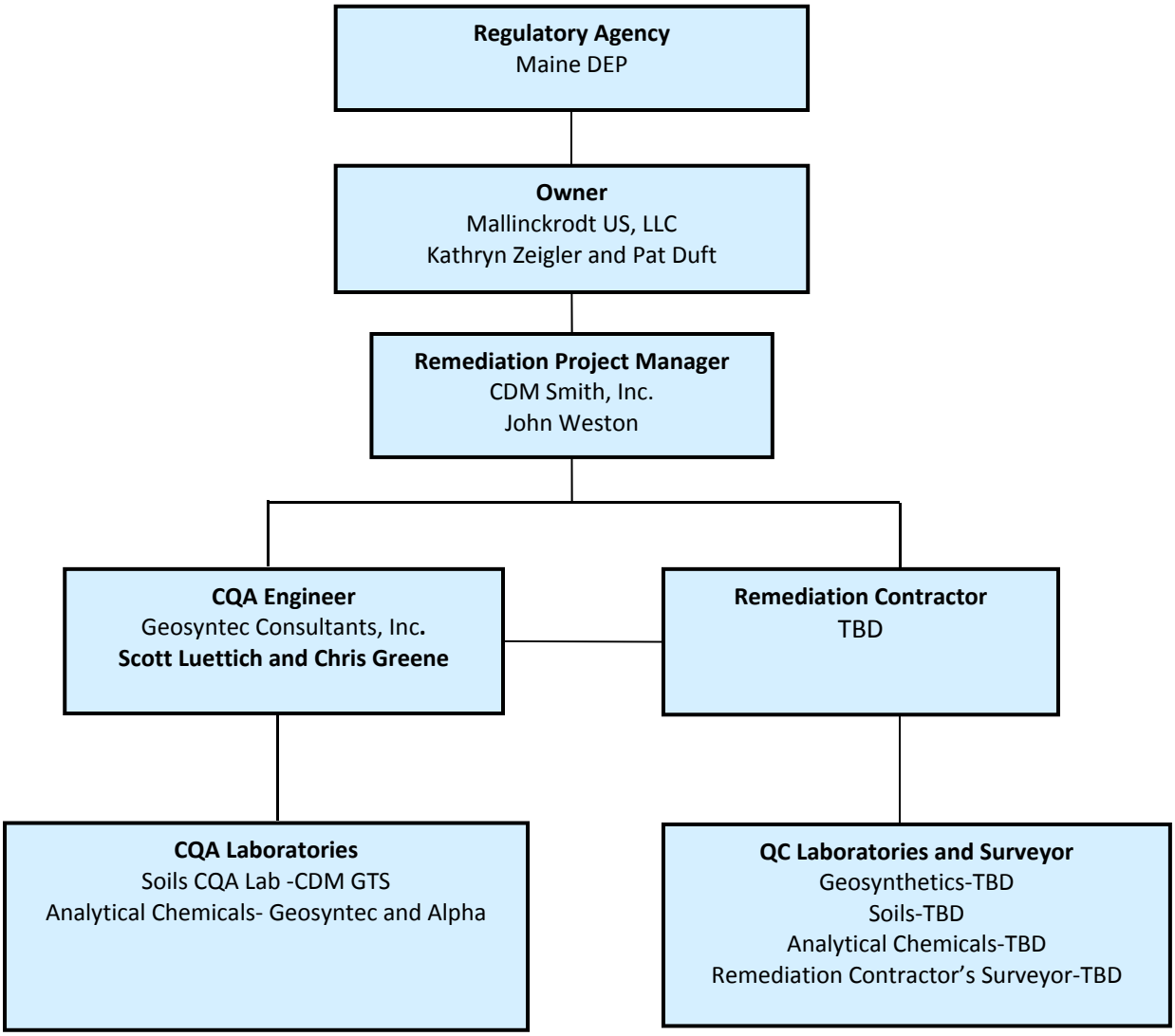
Table 2. Field CQA Testing Requirements for Earthwork and Backfilling

TEST	METHOD	MINIMUM FREQUENCY OF TESTING
In-Place Density/Moisture Content (Nuclear Gauge) (1)(2)(4)(5)	ASTM D 6938	1 per 100,000 ft^2 per lift (minimum one per lift) or 1 per 250 linear feet of Access Road
Thickness Verification(1)(2)(3)(4)(5)	Visual and/or Test Holes	1 per 200 ft grid per lift (1 per 250 linear ft of Access Road)

Notes:

(1) Common fill Type 1
(2) On-site re-used material
(3) Topsoil
(4) Structural fill (access roads only)
(5) Dense Graded Gravel

Figure 1. CQA Organizational Structure - Corrective Measures Implementation



Attachment A

Erosion and Sediment Control Inspection Form and Figures

EROSION AND SEDIMENT CONTROL INSPECTION

ORRINGTON REMEDIATION SITE

DATE:	PERSONNEL:
WEATHER	

ONGOING CONSTRUCTION ACTIVIES

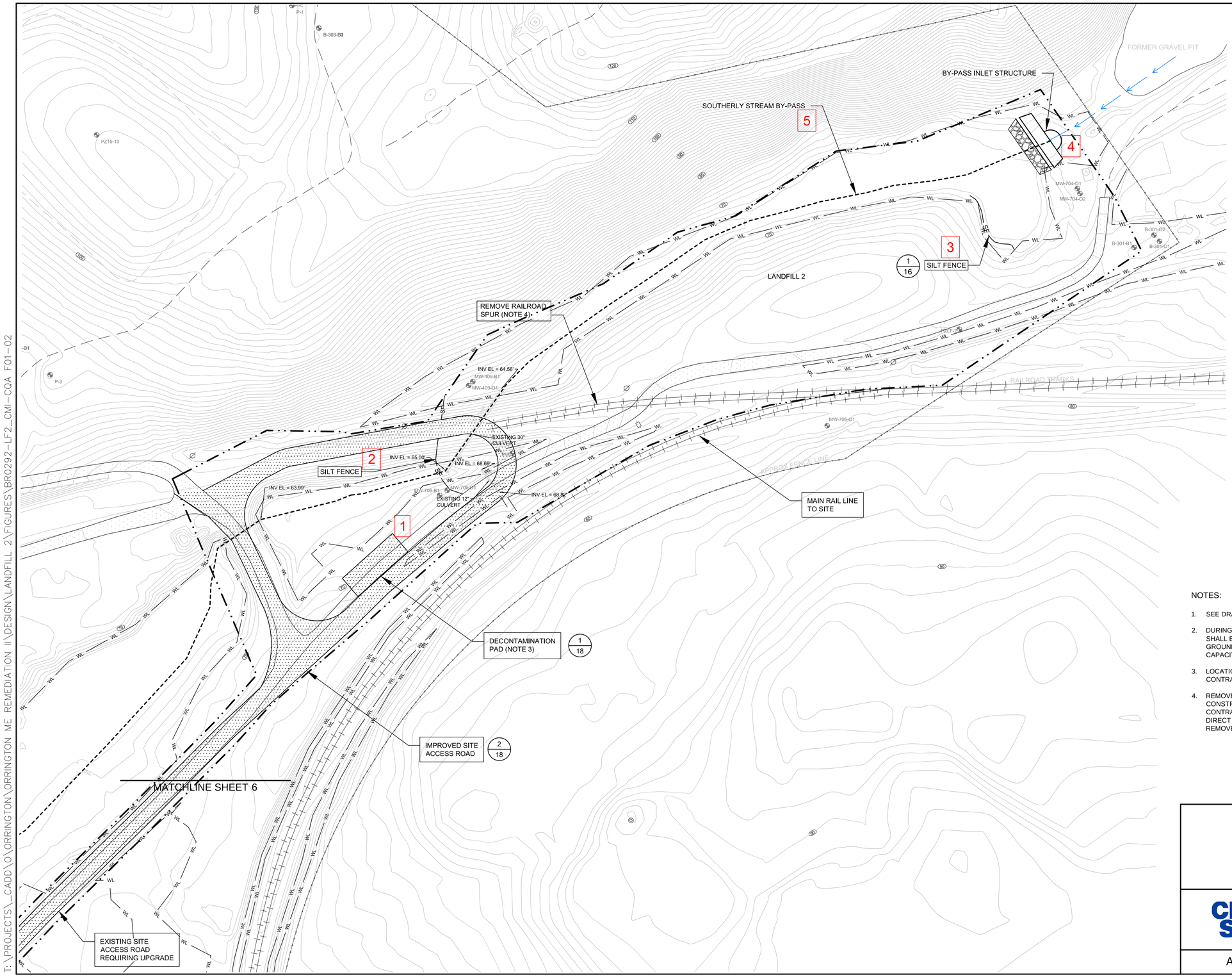
EROSION AND SEDIMENT CONTROLS

Inspection Item(1)	CONTROL	COMMENTS(2)
1	Decontamination Pad	
2	Silt Fence	
3	Silt Fence	
4	Southerly Stream By-Pass Inlet	
5	Southerly Stream By-Pass Pipeline	
6	Wheel Wash/Const. Entrance	
7	Silt Fence	
8	Sump	
9	3-inch HDPE Pipe	
10	Temp. Soil Stockpile Area	
11	4-inch Suction Pump	
12	Frac Tank Area	
13	Southerly Stream By-Pass Outlet	

ATTENTION OR MAINTENANCE REQUIRED(2,3)

(1) Refer to Erosion and Sediment Control Inspection figures for inspection items. Add additional work areas as needed.
(2) Comments should indicate if the control is functioning properly or needs attention or maintenance. Number comments and use corresponding number to indicate attention or maintenance required or completed and add a photograph on of area to the photographs section of this report.
(3) Indicate date of maintenance if maintenance was performed.

EROSION AND SEDIMENT CONTROL INSPECTION	
ORRINGTON REMEDIATION SITE	
DATE:	PERSONNEL:
WEATHER	
SITE CONDITIONS	
SITE PHOTOGRAPHS	
Photograph No. Direction: Description:	



LEGEND

SF	PROPOSED SILT FENCE
	IMPROVED SITE ACCESS ROAD/DECONTAMINATION PAD
1	INSPECTION ITEM

NOTES:

1. SEE DRAWING NO. 2 CMI PLAN SET FOR GENERAL NOTES AND LEGEND.
2. DURING CONSTRUCTION CONTACT STORMWATER FROM WITHIN THE EXCAVATION AREAS SHALL BE COLLECTED AND STORED TEMPORARILY AND TRANSFERRED TO ON-SITE GROUNDWATER TREATMENT PLANT. CONTRACTOR SHALL CONFIRM SUFFICIENT STORAGE CAPACITY BASED ON DESIGN STORM.
3. LOCATION OF DECONTAMINATION PAD WILL BE DETERMINED BY THE REMEDIATION CONTRACTOR AND AS APPROVED BY THE REMEDIATION PROJECT MANAGER.
4. REMOVE RAILROAD SPUR WITHIN LIMITS OF WORK AS REQUIRED TO SUPPORT CONSTRUCTION OF ACCESS ROAD AND DURING PHASE 2 OF THE EXCAVATION. REMEDIATION CONTRACTOR SHALL LEAVE A MINIMUM OF 150 LF OF RAILROAD SPUR IN PLACE TO SUPPORT DIRECT LOADING OF RAIL CARS DURING THE PHASE 1 EXCAVATION. RAIL ROAD MATERIAL REMOVED SHALL BE PLACED IN THE TEMPORARY STOCKPILE AREA.

N

0 40' 80'
SCALE IN FEET

FIGURE 1

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | January 2016

Figure: 1

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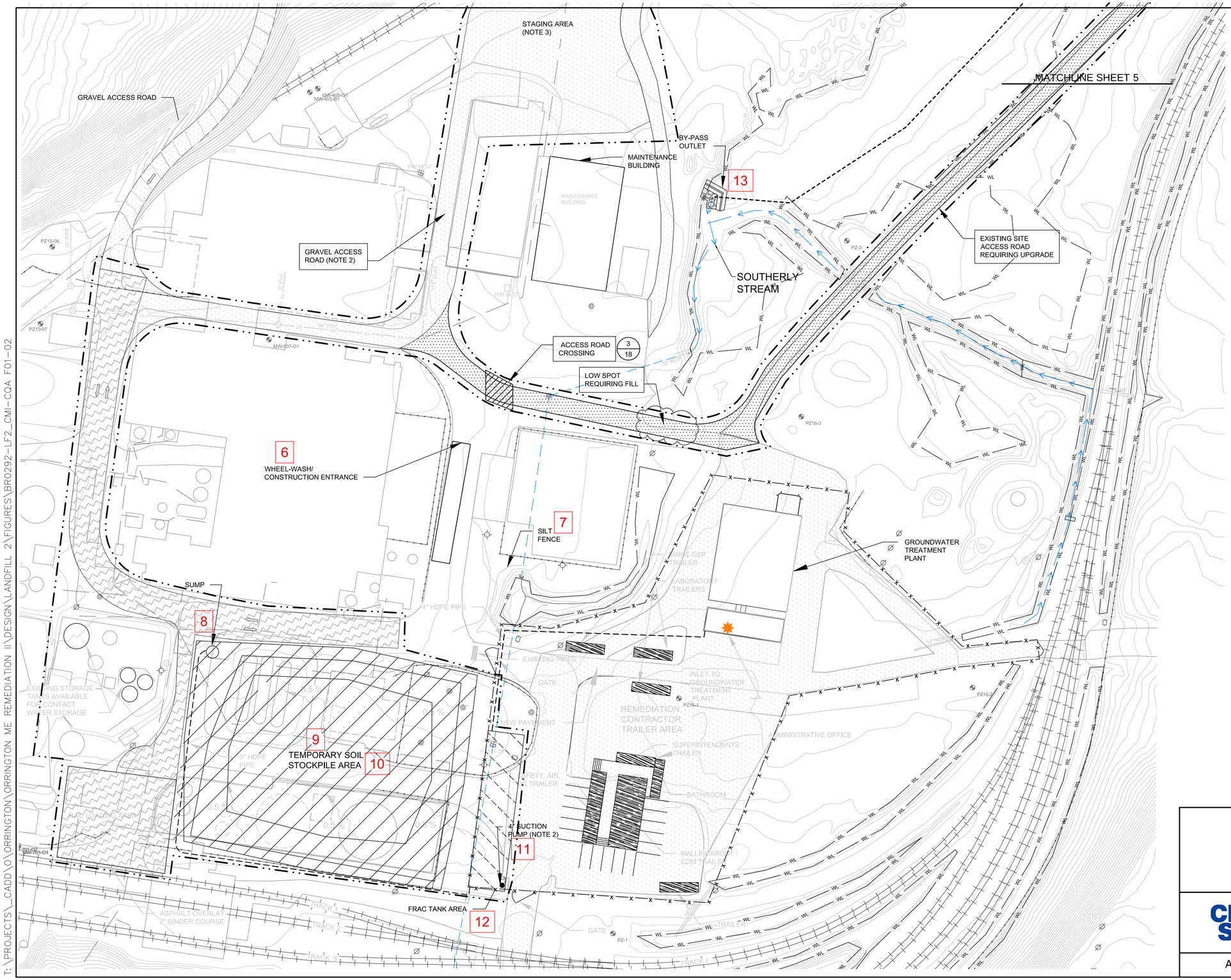

LEGEND

6 INSPECTION ITEM

NOTES:

1. SEE DRAWING NO. 2 CMI PLAN SET FOR GENERAL NOTES AND LEGEND.
2. ACCESS ROAD TO BE CONSTRUCTED AS PART OF SCRAP METAL YARD CMI.
3. EXISTING STAGING AREA TO BE CONSTRUCTED AS PART OF SCRAP METAL YARD CMI.

N

0 40' 80'
SCALE IN FEET

FIGURE 2

ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | January 2016

Figure: 2

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APPENDIX I

Calculations

I-1 Decontamination Pad Liner Puncture Calculation

I-2 Contact Water Volume Calculation

I-3 Slope Stability Calculation

I-4 Stormwater Management Calculation

DRAFT

APPENDIX I-1

Decontamination Pad Liner Puncture Calculation

DRAFT

Written by:	J. H. Gillen	Date:	2016 / 01 / 11 (YYYY MM DD)	Reviewed by:	N. Yafrate	Date:	2016 / 01 / 08 (YYYY MM DD)
Client:	Mallinkrodt, US	Project:	Orring. Rem. Site	Project/Proposal No.:	BR0292	Task No:	02

DECONTAMINATION PAD LINER PROTECTION

CALCULATION PACKAGE

OBJECTIVE

The objective of this calculation package is to provide the minimum required puncture resistance for the geomembrane liner component of decontamination pad constructed at the Orrington Remediation Site, Orrington, Maine. The liner selected must be manufactured to resist damage from truck traffic within the decontamination pad during construction activities. The liner will be protected from truck traffic with a cushion geotextile, aggregate and soil cover.

METHODOLOGY

The proposed location of the decontamination pad station is shown on Drawing 5, and details of the decontamination pad are shown on Drawing 18 of the Landfill 2 CMI Plan drawings. The decontamination pad layout includes, from top to bottom:

- 6 inches of ¾-inch Crushed Stone;
- 18 inches of Drainage Sand Type 2;
- Non-woven cushion geotextile (minimum 32 oz./yd^2); and
- 6 mil geomembrane liner.

A calculation of the estimated loading to be imparted on the liner by vehicular traffic during construction activities was performed. The estimated maximum load was then used to estimate the minimum allowable puncture resistance required for the geomembrane liner material. A description of each calculation is presented below. References for the calculations are provided in Attachment A. Calculations were performed using spreadsheet analysis and are provided with relevant calculation assumptions in Attachment B.

CALCULATIONS

Calculation 1: Loading by Construction traffic

The maximum construction equipment load is expected to result from a Caterpillar 735 articulated truck driving over the decontamination pad (Caterpillar, 2010). The full specifications for a Caterpillar 735 are presented in Attachment A and summarized in the table below.

735 Articulated Truck (Caterpillar, 2010)

Parameter	Value
Empty operating weight (lbs)	69,206
Maximum load (tons)	36
Front axle load distribution (%)	34.9
Middle axle load distribution (%)	33.1
Rear axle load distribution (%)	32.0

To determine the load on each tire, which is also the maximum point load above the liner from the truck, the following equation was used:

$$P_{tire} = \frac{P_{\max} \cdot d_{axle}}{N} \quad (1)$$

where:

P_{tire} = load on wheel (lbs);
P_{max} = truck operating weight plus the maximum load capacity (lbs);
d_{axle} = loaded weight distribution on axle (%); and
N = number of tires per axle (N = 2, for this calculation).

P_{tire} was calculated to equal 24,640 lbs as shown in Attachment B.

The tire contact ground pressure (53 lb/in^2) and contact width (26.5 inches) at the surface of the road were taken from manufacturer's specifications presented in Attachment A. The contact tire length was calculated as

$$Contact\ Tire\ Length = \frac{P_{Tire}}{Contact\ ground\ Pressure \times W} = 17.5\ inches \quad (2).$$

The tires will create distinct point-type loading rather than a uniform distributed load over the decontamination pad area, and due to soil particle interaction the influence area of the load (e.g., stress area) will become larger with depth. Figure 1 presents the assumed tire stress distribution with depth. To estimate subsurface stresses at the depth of the liner material caused by the proposed loading, the 2V:1H approximation method was applied (i.e., the area of stress increases due to the point load is approximated using a 2 vertical to 1 horizontal load distribution through the soil). The method assumes that the subsurface stress at a given depth is uniform over the area stressed, and is calculated as follows:

$$\sigma_v = \frac{Q}{B \times W} \quad (3)$$

Where:

σ_v = subsurface stress at liner (lb/ft^2);

Q = loading (force) at surface (lb);

B = length of stress concentration, equal to tire ground contact length + Z (ft);

W = width of stress concentration, equal to tire ground contact width + Z (ft); and

Z = depth from surface loading to the liner material (ft).

Calculation 2: Geomembrane Puncture Resistance Analysis

The equation for factor of safety against liner puncture is given by:

$$FS_{puncture} = \left[\frac{P_{allow}}{P_{applied}} \right] \tag{4}$$

Where:

P_{allow} = allowable pressure on geomembrane (kPa); and

$P_{applied}$ = total vertical stress on the liner from the soil and vehicle loading (kPa)

A target factor of safety equal to 3.0 (Koerner, 2005) was used to back calculate the allowable pressure on the liner using the anticipated total vertical stress at the decontamination pad.

The empirical equation proposed by Koerner (2005 and 2010) to evaluate the protection of geomembrane against puncture is as follows:

$$P_{allow} = \left(X + 0.00045 \frac{M}{H^2} \right) \left[\frac{1}{MF_S \times MF_{PD} \times MF_A} \right] \left[\frac{1}{RF_{CR} \times RF_{CBD}} \right] \tag{5}$$

Where:

P_{allow} = allowable pressure on geomembrane (kPa);

X = minimum geomembrane puncture resistance (kPa);

M = mass per unit area of geotextile (g/m^2);

H = protrusion height (m);

MF_{PD} = modification factor for packing density;

MF_S = modification factor for protrusion shape;

MF_{PD} = modification factor for packing density;

MF_A = modification factor for arching in solids;

RF_{CR} = reduction factor for long-term creep; and

RF_{CBD} = reduction factor for long-term chemical/biological degradation.

Using the recommended modification and reduction factors with Equation (5) (presented in Koerner (2005), with updates presented in Koerner (2010)), the following values were selected for each parameter for geomembrane puncture analysis:

Parameter values selected for Puncture Analysis

H (mm)	M (g/m^2)	MF_S	MF_{PD}	MF_A	RF_{CR}	RF_{CBD}
25.4	254 (2)	1	1	0.75	1	1

Notes,

(1) Relationship assumes an isolated angular stone with a protrusion height of 1 inch (25.4 mm) exists, based on maximum particle size allowed for the Maine DOT Material Specification 703.22 Type B and Type C material to be used.

(2) Assumes a minimum 7.5-oz/yd^2 cushion geotextile protects the geomembrane.

Using the target value of P_{allow}, and Equation 5 listed above, the value for the minimum liner puncture resistance, of 640 lb/ft^2, was calculated as shown in Appendix B. Note the minimum liner puncture resistance considers use of a 7.5 oz/yd^2 cushion geotextile.

RESULTS AND RECOMMENDATIONS

The detailed calculation results are presented in Attachment B. The liner material used in the decontamination pad area must have a minimum puncture resistance of 640 lb/ft^2 (31 kN/m^2) in order to achieve a factor of safety against liner puncture equal to 3.0, assuming the total vertical stress due to vehicular traffic is equal to 1,931 lb/ft^2. Puncture resistance for geomembrane liner products is typically presented by the manufacturer in units of force. To obtain an equivalent puncture resistance in lbs of force, the pressure, 640 lb/ft^2 was divided by the standard area of the 3.18 mm diameter rod used in puncture resistance testing (ASTM D2582, 2014). The equivalent minimum required puncture resistance for the liner is 0.05 lbs (0.24 N).

A double-layer of geomembrane meeting the puncture resistance requirement above shall be used in conjunction with a non-woven geotextile cushion with a minimum mass per unit area of 7.5 oz./yd^2, crushed stone and drainage sand materials, as described above. Heavier geotextile cushion and thicker aggregate layers will increase protection of the liner material. As such, the

drawings specify a non-woven geotextile with a mass per unit area of 32 oz./yd^2 which is recommended to provide additional cushioning of the geomembrane liner while still requiring a minimum liner puncture resistance of 640 lb/ft2. If a lighter weight (e.g., less than 32 oz./yd^2) geotextile is chosen for use or other conditions change (e.g. thickness of the aggregate and soil is less than used in the construction of the decontamination pad from those presented in this calculation package), the calculations and recommendations presented herein should be re-evaluated and revised with supplemental analyses if necessary.

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ASTM D2582-09, Standard Test Method for Puncture-Propagation Tear Resistance of Plastic Film and Thin Sheeting, ASTM International, West Conshohocken, PA, 2009, www.astm.org

Caterpillar Performance Handbook, 40th Edition. A Caterpillar publication by Caterpillar Inc., Peoria, Illinois, USA. 1979-2010.

Das, B.M. (2007). "Principles of Foundation Engineering, 6th Edition." Toronto, Ontario Canada, Nelson, Thompson.

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FIGURE

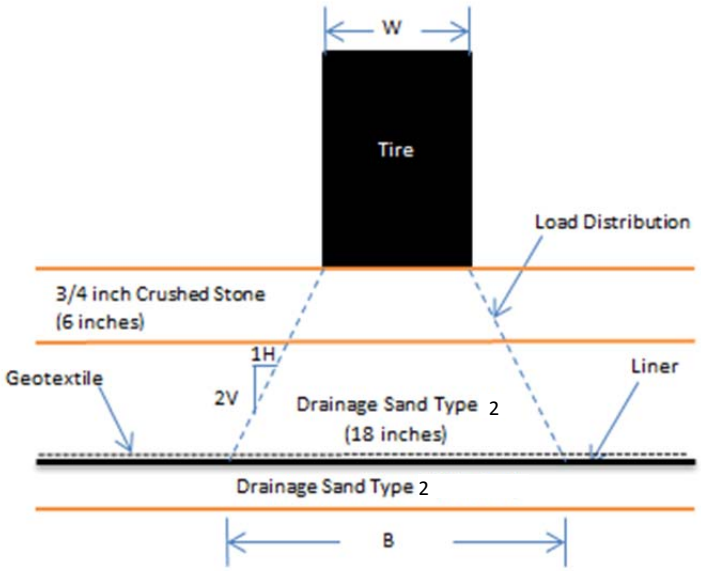


Figure 1. Schematic tire and stress distribution layout for decontamination pad.

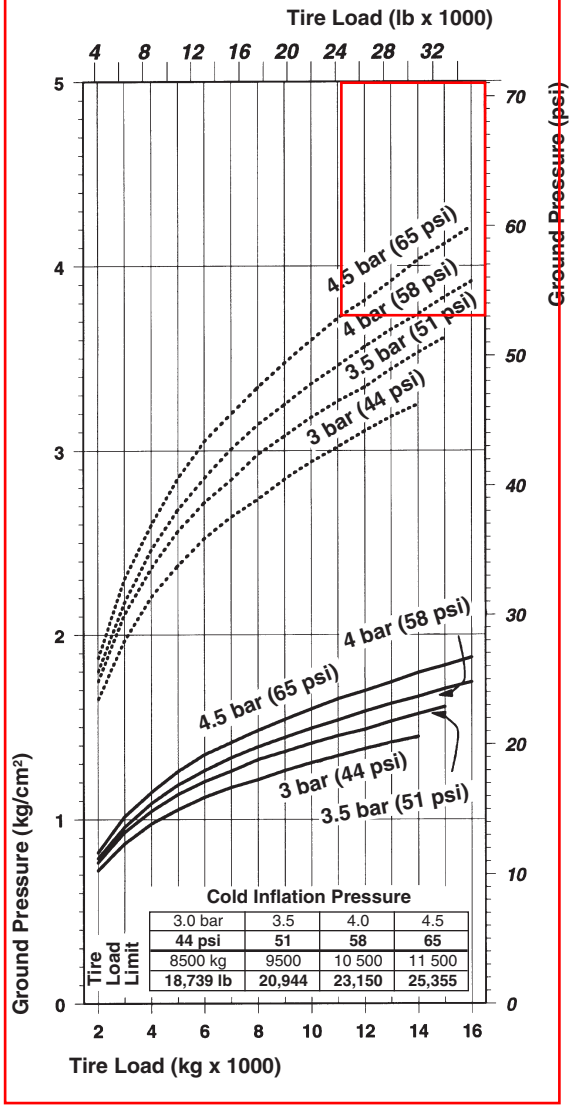
ATTACHMENT A

REFERENCES

MODEL	735		740		740 Ejector	
Gross Power — SAE J1995	324 kW	**435 hp**	350 kW	**469 hp**	350 kW	**469 hp**
Net Power — SAE J1349	313 kW	**419 hp**	338 kW	**453 hp**	338 kW	**453 hp**
Net Power — ISO 9249	319 kW	**424 hp**	342 kW	**458 hp**	342 kW	**458 hp**
Net Power — EEC 80/1269	319 kW	**424 hp**	342 kW	**458 hp**	342 kW	**458 hp**
Operating Weight (Empty)*	31 391 kg	**69,206 lb**	33 100 kg	**72,973 lb**	35 610 kg	**78,507 lb**
Top Speed (Loaded)	51.3 km/h	**31.9 mph**	54.7 km/h	**34 mph**	54.7 km/h	**34 mph**
GMW — Gross Machine Weight	64 091 kg	**141,297 lb**	72 600 kg	**160,055 lb**	73 610 kg	**162,282 lb**
Distribution Empty:						
Front	**60.5%**		**58.6%**		**55.6%**	
Center	**20.8%**		**21.8%**		**23.1%**	
Rear	**18.7%**		**19.6%**		**21.3%**	
Distribution Loaded:						
Front	**34.9%**		**33.9%**		**29.1%**	
Center	**33.1%**		**33.5%**		**35.9%**	
Rear	**32.0%**		**32.6%**		**35.0%**	
Max. Capacity**	32.7 t	**36 T**	39.5 t	**43.5 T**	38 t	**42 T**
Struck (SAE)	14.5 m^3	**19.0 yd^3**	18.5 m^3	**24.2 yd^3**	17.8 m^3	**23.3 yd^3**
Heaped (2:1) (SAE)	19.7 m^3	**25.8 yd^3**	24 m^3	**31.4 yd^3**	23.1 m^3	**30.2 yd^3**
Engine Model	**ACERT C15**		**ACERT C15**		**ACERT C15**	
No. Cylinders	**6**		**6**		**6**	
Bore	137 mm	**5.4"**	137 mm	**5.4"**	137 mm	**5.4"**
Stroke	171.5 mm	**6.75"**	171.5 mm	**6.75"**	171.5 mm	**6.75"**
Displacement	15.2 L	**926 in^3**	15.2 L	**926 in^3**	15.2 L	**926 in^3**
Tires, Front, Center, Rear	**26.5R25 Radials**		**29.5R25 Radials**		**29.5R25 Radials**	
Circular Clearance Diameter	17.2 m	**56'5"**	17.2 m	**56'5"**	18.2 m	**59'6"**
Fuel Tank Refill Capacity	532 L	**140.5 U.S. gal**	532 L	**140.5 U.S. gal**	532 L	**140.5 U.S. gal**
General Dimensions (Empty):						
Height to Cab Top	3.7 m	**12'1"**	3.75 m	**12'3"**	3.75 m	**12'3"**
Wheel Base (Front-Center of Bogie)	5.23 m	**17'2"**	5.23 m	**17'2"**	5.58 m	**18'3"**
Overall Length	10.89 m	**35'7"**	10.89 m	**35'7"**	11.59 m	**38'0"**
Loading Height (Empty)	2.98 m	**9'8"**	3.2 m	**10'6"**	3.07 m	**10'1"**
Height at Full Dump	6.81 m	**22'4"**	7.1 m	**23'4"**	**—**	
Body Length	6.09 m	**20'0"**	6.3 m	**20'6"**	6.73 m	**22'1"**
Width (Operating — Over Mirrors)	3.82 m	**12'6"**	3.82 m	**12'6"**	3.82 m	**12'6"**
Front Tire Tread	2.69 m	**8'8"**	2.69 m	**8'8"**	2.69 m	**8'8"**

*Includes coolant, lubricant and full fuel tank.
**Rating dependent on optional equipment. Maximum gross weight (empty weight plus payload) should not be exceeded.

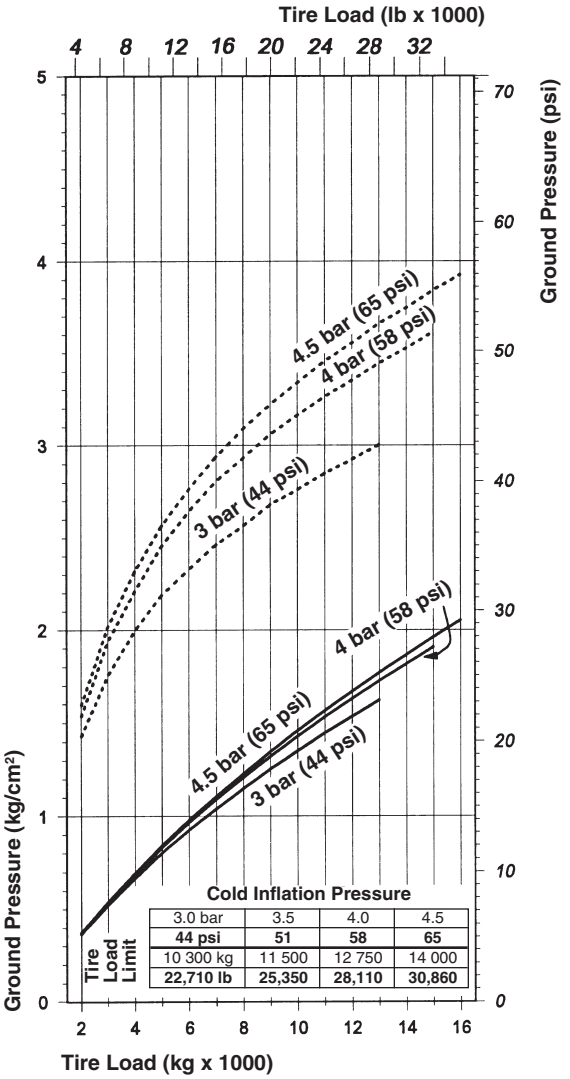
26.5R25 Tires*



Cold Inflation Pressure

3.0 bar	3.5	4.0	4.5
44 psi	**51**	**58**	**65**
8500 kg	9500	10 500	11 500
18,739 lb	**20,944**	**23,150**	**25,355**

29.5R25 Tires*



Cold Inflation Pressure

3.0 bar	3.5	4.0	4.5
44 psi	**51**	**58**	**65**
10 300 kg	11 500	12 750	14 000
22,710 lb	**25,350**	**28,110**	**30,860**

KEY

-------- Zero Penetration (Flat Plate)

——— 76 mm (3") Penetration

*Charts based on Michelin XADN tire characteristics. Results may differ for other tread patterns and/or brands. Charts are to be used to calculate ground pressure. To determine the inflation as a function of load and conditions or when loads exceed tire load limit, contact your tire manufacturer representative.

ATTACHMENT B

CALCULATIONS

Decontamination Pad/Wheelwash Design Calculations - Liner protection
Orrington Remediation Site
Orrington, ME

1.Truck Properties and Load Calculation

Truck Model = CAT 735	
Parameter	Value
Empty operating weight (lbs)	69,206
Maximum load (tons)	36.0
Front axle load distribution (%)	34.9
Middle axle load distribution (%)	33.1
Rear axle load distribution (%)	32.0

(from Caterpillar Performance Handbook, 40th Edition, 2010)

P_{max} =	141,206	lbs
d_{axle} =	34.9	-
P_{tire} =	24,640	lbs
Tire Ground Pressure =	53	lb/in^2

(Reference Attachment A; assumed no ground penetration and 65 psi tire air pressure)

Tire Ground Contact Area =	464.9	in^2
Tire Ground Contact Width, W =	26.5	in
Tire Ground Contact Length =	17.5	in

2. Material Properties, Pad Layout and Loading Conditions

	Construction Entrance and Decontamination Pad	
3/4 inch Crushed stone Thickness =	6	in
Drainage sand Type 1 Thickness =	18	in

Material Properties

Unit Weight, γ =	120	lb/ft^3

Note: Unit weight is assumed for both soils.

Stress Distribution - Reference Figure 1 ***(assume stress distribution follows 2:1 method for rectangular loading areas, Das 2007)***

Stress Dimmensions

	Construction Entrance and Decontamination Pad	
Stress width, B =	4.2	ft
Stress length, L =	3.5	ft
Stress depth, Z=	2.0	ft

3. Estimated Stress on Liner

Vertical stress of soil at liner =	240	lb/ft^2
Vertical stress at liner by truck =	1,691	lb/ft^2
Total vertical stress at liner =	1,931	lb/ft^2

4. Estimated Minimum Geomembrane Puncture Resistance

Target Factor of Safety against puncture =	3	
Target Allowable Pressure, P_{allow} =	5,794	lb/ft^2
	277	kN/m^2
Protrusion height, H=	25.4	mm
Geotextile Mass Per Unit Area, M=	7.5	oz/yd^2
	254	g/m^2

Modification Factors

MF_S =	1.0
MF_{PD} =	1.0
MF_A=	0.75
RF_{CR}=	1.0
RF_{CBD}=	1.0

	Pressure		Force[1]	
Minimum Puncture resistance for liner =	31	kN/m^2	0.24	N
	640	lb/ft^2	0.05	lbs

Notes:

1. The minimum puncture resistance force (in N or lbs) is estimated by multiplying the minimum puncture resistance pressure by the area of a 3.18 mm diameter probe used for American Society for Testing and Materials (ASTM) D2582 Standard Test Method for Puncture-propogation tear resistance of plastic film and thin sheeting.

APPENDIX I-2

Contact Water Volume Calculation

DRAFT

Written by: PA Date: 22 Nov. 2015 Reviewed by: PJS Date: 2 Dec. 2015

Client: Mallinckrodt Project: Orring. Rem. Site Project/Proposal No.: BR0292 Phase No.: 11

CONTACT WATER VOLUME ESTIMATE

LANDFILL 2 EXCAVATION AREA

INTRODUCTION

The purpose of this calculation package is to provide calculations for the anticipated volume of contact water that could be generated (and therefore will require handling by the Remediation Contractor) from groundwater interception and precipitation occurring within the Landfill 2 Excavation Area (Excavation Area) phases of the excavation work as presented by the Remediation Contractor's Excavation and Restoration Work Plan. On the basis of these calculations, recommendations regarding contact water management in the Excavation Area during the various phases of the excavation are provided. The calculations also consider the amount of contact water that could be generated in the in the Temporary Soil Stockpile Area (TSSA).

SITE CONDITIONS

The Landfill 2 Excavation Area is shown on Drawing Number 9 of the Landfill 2 Corrective Measures Implementation (CMI) Plan drawing set. Material requiring off-site disposal from the Excavation Area will be moved to the Temporary Soil Stockpile Area and loaded on to rail cars. The Excavation Area will be excavated according to the sequencing proposed by the Remediation Contractor and so that contact water is captured and stored or directly conveyed to the groundwater treatment plant (GWTP).

SUBSURFACE CONDITIONS

The subsurface conditions in the Excavation Area are shown on Drawings 9 of the Landfill 2 CMI Plan drawing set. In general, the stratigraphy in this area includes the following beginning at the ground surface:

- Fill: 3 to 9 feet and is composed of very loose to dense silty and clayey sand.
- Native soils underlying the Fill: typically soft to very stiff silt and clay silt with fine sand and trace gravel.

The groundwater elevation were evaluated based on existing groundwater levels measured at wells B-301-O2, B-301-O1, B-301-B1, PZLF-2, MW-409-B1, MW-409-O1, and P-9. The readings were taken between July and August 2015. The highest water level reading was observed at PZLF-2 with a water level at Elevation 69.5 ft. In addition, groundwater elevations were evaluated using information in boring logs, namely the depth to material saturation (i.e. the depth at which the material was observed as "wet" on the boring logs). On average across the Site, the groundwater elevation was observed to be between Elevation 68 and Elevation 70 ft. The groundwater table was conservatively taken to be Elevation 70 ft for

the entire Site. The bottom elevations of the Excavation Area cells are anticipated to be below the groundwater table (i.e., wet conditions will exist for much of the excavation areas).

METHODOLOGY

The combination of stormwater runoff and groundwater seepage will contribute to contact water generated in the Excavation Area. Two scenarios for the Excavation Area were considered representing different phases of the excavation as presented in the Remediation Contractor's Excavation and Restoration Plan. Those scenarios include:

- Scenario 1: Contact water volume generated based on the design storm applied to the Phase 1 open excavation area and from groundwater seepage, as presented in Figure 1; and
- Scenario 2: Contact water volume generated based on the design storm applied to the Phase 2 and 3 open excavation area and from groundwater seepage, as presented in Figure 2.

Contact water volumes were used to estimate the duration required to pump and treat contact water based on the allowable discharge rate. The excavation will be performed in a minimum of two distinct phases, as approximately delineated in Figures 1 and 2. Phase 1 excavation and Phase 2 and 3 excavation will be separated by a diversion berm to reduce the volume of contact water that would need to be treated. Phase 1 excavation includes cells: LF2-1 through LF2-8, and LF2-13 through LF2-16. Phase 2 and 3 excavation includes the remainder of cells: LF2-9 through LF2-12, and LF2-16 through LF2-25.

A summary of the calculation steps is provided below.

Storm Contact Water Volume (V_{Storm}). The volume of contact water resulting from the design storm was calculated for each scenario as the product of the catchment area and total rainfall associated with the design storm. The contact water volume, $V_{contact}$, is expressed as:

$$V_{Storm} = CiA_{Cont}$$

Where: C = runoff coefficient for the design storm;
i = rainfall depth for design storm (in/24 hr.); and
A_{Cont} = catchment area, taken as the "open area" of the Landfill 2 Area Excavation (ft^2) shown in Figures 1 and 2.

The design storm used in this calculation is the 10-year, 24 hour event which corresponds to 4.06 inches of rain. The design storm is used for compliance with the flooding standard of the Maine storm water rules (06-096 CMR ch. 500(4)(E)).

Steady State Groundwater Flow rate (Q_{GW}). The steady state groundwater flow rate into the excavation area is calculated based on the Ibrahim and Brutsaert (1965) method of predicting inflows and projected water level decline in the vicinity of excavations. Flow is computed from the following equations:

$$Q_{GW} = \frac{H^2 K}{S_y R} \gamma \times P_{excav}; and$$

$$\tau = \frac{KH}{S_y R^2} t$$

Where:

- γ = dimensionless discharge, obtained using Figure 3;
- τ = dimensionless time coefficient, used in Figure 3;
- t = drawdown time required to create the steady state drawdown condition shown in Figure 3 (days)
- K = hydraulic conductivity of soil (ft/s);
- H = height of the water column to be dewatered, calculated as the difference between the original water surface and the area-weighted average bottom of excavation elevation (ft) plus one foot;
- S_y= Specific yield of unconfined aquifer equal to the soil porosity;
- R = radius of influence of excavation on surrounding piezometric surface (ft) (assumed to be 3H)
- P_{excav} = the approximate perimeter of excavation areas below the groundwater elevation.

The drawdown time for each excavation phase was calculated separately. The drawdown time, t, required to meet the steady state groundwater flow condition was estimated by dividing the anticipated volume of water for each phase by the discharge rate described below. The volume of water in these areas is calculated as the product of the sum of the excavation areas (A_{Exc}), H, and the porosity of soil within the areas (η). Calculated values for estimating the drawdown time for each phase are summarized in Table 1.

The value of H is calculated as the difference between the groundwater surface elevation and the area-weighted average elevation for the bottom of the excavation, minus 1 foot to keep the groundwater 1 foot lower than the bottom of excavation. The porosity is estimated to be 0.3 based on laboratory measured moisture contents, an assumed specific gravity of 2.6, and the assumption that collected samples represent saturated conditions. The area-weighted average was calculated using only those excavation areas with bottom of excavation elevations below the groundwater surface elevation. A table summarizing relevant areas, areas and bottom of excavation elevations used to calculate the area-weighted average bottom of excavation elevation is provided in Attachment A.

Discharge rate (Q_{TP}). The discharge rate is the rate at which contact water can be conveyed to the on-site GWTP.

Treatment time. The time required to pump the volume of contact water generated during the design storm to the onsite GWTP. Treatment time is calculated as the volume of water generated during the design storm divided by the discharge rate minus the groundwater flow rate.

Contact water in the TSSA (V_{TSSA}). The anticipated volume of water due to the design storm was estimated to be 110,880 gallons. The TSSA perimeter berm is 2 ft high with 4H:1V slopes and 800 ft long. The total TSSA area is 43,750 ft^2 and the base area is 37,350 ft^2. The TSSA will be constructed to allow detention of stormwater that falls within the area, plus additional capacity. The total volume of the TSSA, calculated as the base area multiplied by the berm height (i.e., not including side slopes) is approximately 558,756 gallons.

ASSUMPTIONS

The following assumptions are used for the contact water calculations summarized.

The on-site GWTP has a capacity of 20,000 gallons per day (e.g. 13.9 gallons per minute) for remediation activities associated with the Landfill 2 remediation.

- Excavation will proceed according to the Excavation Sequencing (Figures 1 and 2) presented in the Remediation Contractor's Excavation and Restoration Work Plan.
- Groundwater will flow into the Excavation Area at a rate based on the total perimeter of each phase, P_{excav}. The perimeters for each excavation phase are shown on Figures 1 and 2.
- The static maximum groundwater elevation around Landfill 2 Excavation Areas is the highest groundwater elevation encountered in the geotechnical and soil borings, elevation 70 ft;
- The 10 year storm event will occur after achieving steady state drawdown conditions in either phase of excavation;
- The hydraulic conductivity of the soil in the Excavation Area is calculated, based on the Hazen correlation to grain size diameter corresponding to 10 percent passing on a soil grain size distribution curve using a coefficient (A=1) (Freeze and Cherry, 1979), as:

$$K = Ad_{10}^2 = (1)(0.0769\,mm)^2 = 1.90 \times 10^{-4}\,\frac{ft}{s}$$

The value of d_{10} was obtained from grain size distribution curve for a sample of silt (GB-LF2-03-150625-12-13.4) material taken during predesign investigation activities;

- The radius of influence, R, corresponding to the drawdown due to excavation activities is equal to 3H (Singh et. al, 1985);
- Groundwater flow into the excavation area is horizontal and groundwater infiltration will occur at the same rate along the entire excavation area perimeter;
- Surface water flow into the Excavation Area will not occur. Surface water from the surrounding area will be diverted by storm water BMPs;
- The runoff coefficient is selected based on the assumption the Excavation Area is an unimproved area (C=0.3) (Chin, 2006);
- No other remediation areas (e.g., Landfill 3, 4 and 5) will be pumping contact water to the GWTP during the Landfill 2 work; and
- There is a gravel layer located within the Phase 1 excavation. It is assumed that subsurface ground water flows through the gravel from the northeast towards the southwest in the Excavation Area footprint. A sheet pile wall will be installed around the gravel, along the northeastern most section of the Excavation Area, to cutoff water flow through the gravel unit, as shown on Figure 1. The sheet pile wall is to be keyed into fined grained till material located below the gravel layer. Therefore, for these calculations, it is assumed that there will be negligible flow from the gravel unit into the excavation[1].

CALCULATIONS AND RESULTS

Calculations for anticipated contact water volumes for Scenarios 1 and 2 are provided below.

Scenario 1 – Design storm for open excavation shown in Figure 1, excavation areas below groundwater elevations:

Contact Water volume for Scenario 1:

$$V_{Contact,1} = (0.3) \times \frac{4.06\ in}{12\frac{inch}{ft}} \times 32{,}000\ ft^2\ x\ \left(\frac{7.48\ gal}{ft^3}\right) = 24{,}295\ gal$$

Groundwater Flow Rate for Scenario 1:

$$\tau_1 = \frac{1.90 \times 10^{-4}\left(\frac{ft}{s}\right) \times 9.8\ ft}{(0.3)(29.5\ ft)^2} \times 26\ days\ \times 24\ \frac{hr}{day}\ \times 3{,}600\frac{s}{day} = 16.0$$

[1] A site investigation including borings along the proposed alignment is required to prepare a final design for the cutoff wall described.

$$Q_{GW,1} = \frac{(9.8\,ft)^2 \times 1.90 \times 10^{-4}\left(\frac{ft}{s}\right)}{(0.3) \times 29.5\,ft} 0.01 = 2.07 \times 10^{-5}\frac{ft^3}{s} per\ linear\ ft\ of\ perimeter$$

$$Q_{GW,1}(Total) = 2.07 \times 10^{-5}\frac{ft^3}{s} \times 790\,ft = 7.35\,\frac{gal}{min}$$

Groundwater flow rate is therefore assumed to be 7.35 gpm.

The time required to pump and treat Contact Water generated in Scenario 1 is calculated as the Contact Water volume divided by the discharge rate minus the flow rate required to maintain steady state groundwater drawdown conditions, thus:

Treatment Time:

$$Treatment\ Time_1 = \frac{24{,}295\,gal}{(13.9\,gpm - 7.35\,gpm)} = 2.6\,days$$

Scenario 2 – Design storm for open excavation shown in Figure 2, excavation areas below groundwater elevations:

Contact Water volume for Scenario 2:

$$V_{Contact,2} = (0.3) \times \frac{4.06\,in}{12\,\frac{inch}{ft}} \times 45{,}000\,ft^2\ x\ \left(\frac{7.48\,gal}{ft^3}\right) = 34{,}165\,gal$$

Groundwater Flow Rate for Scenario 2:

$$\tau_2 = \frac{1.90 \times 10^{-4}\left(\frac{ft}{s}\right) \times 9.6\,ft}{(0.3)(28.9\,ft)^2} \times 36\,days \times 24\,\frac{hr}{day} \times 3{,}600\,\frac{s}{day} = 23.1$$

$$Q_{GW,2} = \frac{(9.6\,ft)^2 \times 1.90 \times 10^{-4}\left(\frac{ft}{s}\right)}{(0.3) \times 28.9\,ft} 0.01 = 2.02 \times 10^{-5}\frac{ft^3}{s} per\ linear\ ft\ of\ perimeter$$

$$Q_{GW,2}(Total) = 2.02 \times 10^{-5}\frac{ft^3}{s} \times 1200\,ft = 10.88\,\frac{gal}{min}$$

Groundwater flow rate is therefore assumed to be 10.9 gpm.

The time required to pump and treat Contact Water generated in Scenario 2 is calculated as the Contact Water volume divided by the discharge rate minus the flow rate required to maintain steady state groundwater drawdown conditions, thus:

Treatment Time:

$$Treatment\ Time_1 = \frac{34{,}165\ gal}{(13.9\ gpm - 10.9\ gpm)} = 7.9\ days$$

RECOMMENDATIONS

The following are recommendations for the contract water management and maintenance of the Excavation Area based on the above calculations:

- A maximum of approximately 30,000 gallons of water will require storage after a 10 year storm event for both scenarios. The contact water will be stored on-site in frac tanks or the existing storage tanks. The capacities of these are as follows:
  - One frac tank at Landfill 2 – 20,000 gallons;
  - Two frac tanks adjacent to the TSSA – 40,000 gallons; and
  - Existing storage tanks adjacent to the TSSA – 60,000 gallons.
- Additional frac tanks (if needed) can be brought to the site after a rain event.
- Frac tanks and contact water storage vessels should be maintained empty during periods of no precipitation.
- The Remediation Contractor's Construction Water Management and Excavation and Restoration Work Plans should include means and methods to minimize potential contact water, to remove contact water from the excavation and provide excess storage to maintain a dry excavation. These should include (but not be limited to):
  - Proposed incremental excavation and backfilling to reduce the volume of contact water that may occur at any given time;
  - Dewatering methods (e.g. sumps, well points, etc.);
  - Proposed methods to handle additional contact water from groundwater that (depending on the time of year) may be present in the excavation; and
  - Contingency plans to coordinate and manage pumping if other areas of the Site will be discharging to the GWTP.
- Contact water collected within the Excavation Area shall be collected and pumped to the on-site groundwater treatment plant to be treated. Table 2 summarizes the anticipated contact water volumes to be managed by the Remediation Contractor.
- A sheet pile wall extending along the northeastern boundary of the Excavation Area should be installed to the potential for high groundwater flow through the pervious gravel layer.
- If the Site conditions change or are different than those assumed in the calculations, then the results and recommendations shall be re-evaluated.

Written by: PA Date: 22 Nov. 2015 Reviewed by: PJS Date: 2 Dec. 2015

Client: Mallinckrodt Project: Orring. Rem. Site Project/Proposal No.: BR0292 Phase No.: 11

Table 1: Summary of Calculated Drawdown Time to Establish Steady State for the Landfill 2 Excavation Phases

	Excavation		Units
	Phase 1	**Phase 2+3**	
A_{Exc}(1)	23,516	33,862	ft^2
H(2)	9.8	9.6	ft
K(3)	1.90×10^{-4}	1.90×10^{-4}	ft/s
η(4)	0.3	0.3	
R	29.5	28.9	ft
V(5)	518,140	727,281	gal
t(6)	26	36	day

Notes:

1) Total area of the excavation cells
2) Height of average water head to be dewatered
3) Average hydraulic conductivity
4) Soil porosity
5) Volume of water to be treated to establish steady state
6) Time to treat the in-situ contact water

Table 2: Summary of Contact Water Volumes to be managed for the Landfill 2 Area Excavation

Excavation Sequence Scenario	Estimated Volume of Contact Water	Duration to pump to GWTP
Scenario 1, Phase 1 excavation (Figure 1)	24,295 gallons	3 days
Scenario 2, Phase 2 excavation (Figure 2)	34,165 gallons	8 days

Written by: PA Date: 22 Nov. 2015 Reviewed by: PJS Date: 2 Dec. 2015

Client: Mallinckrodt Project: Orring. Rem. Site Project/Proposal No.: BR0292 Phase No.: 11

RECOMMENDATIONS

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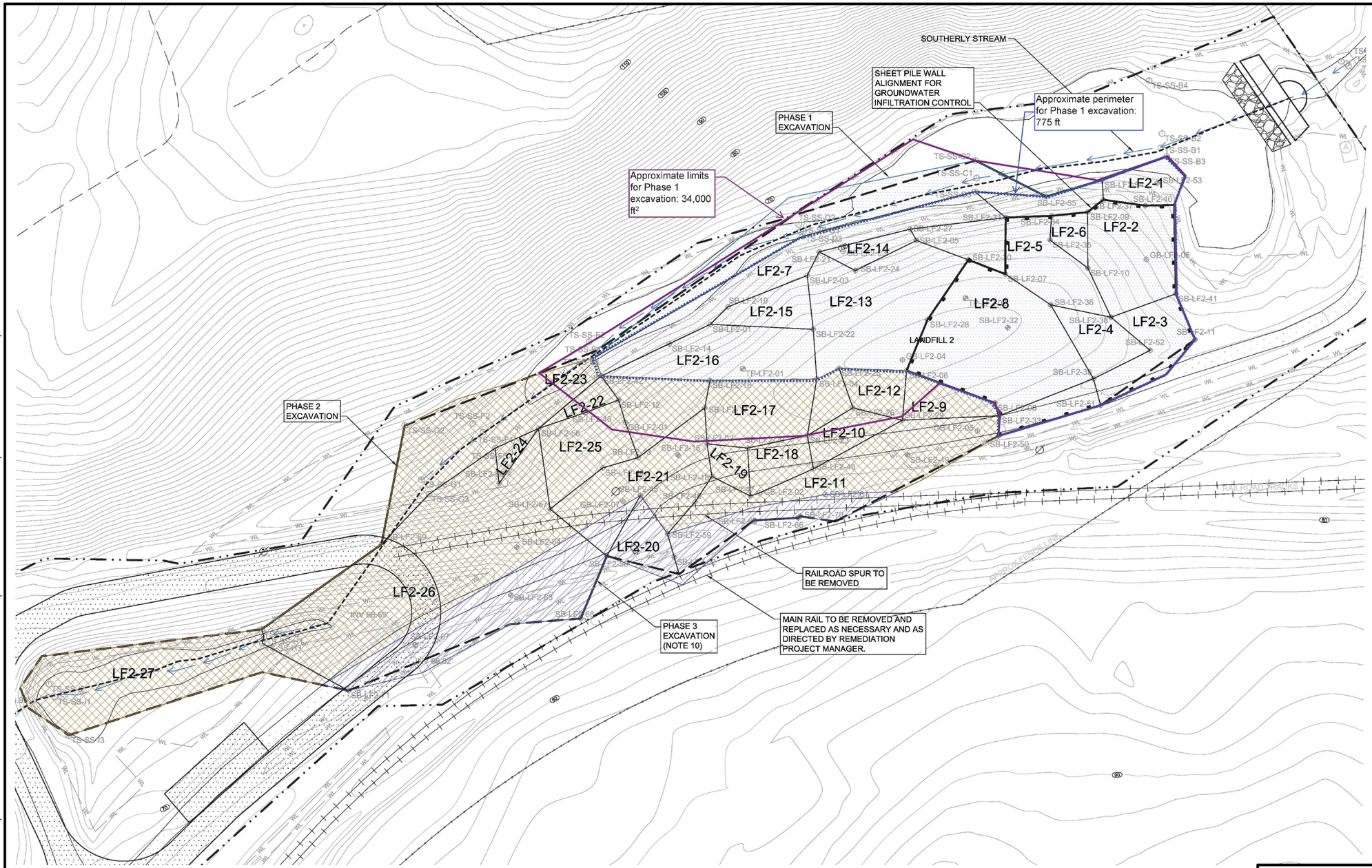
FIGURES



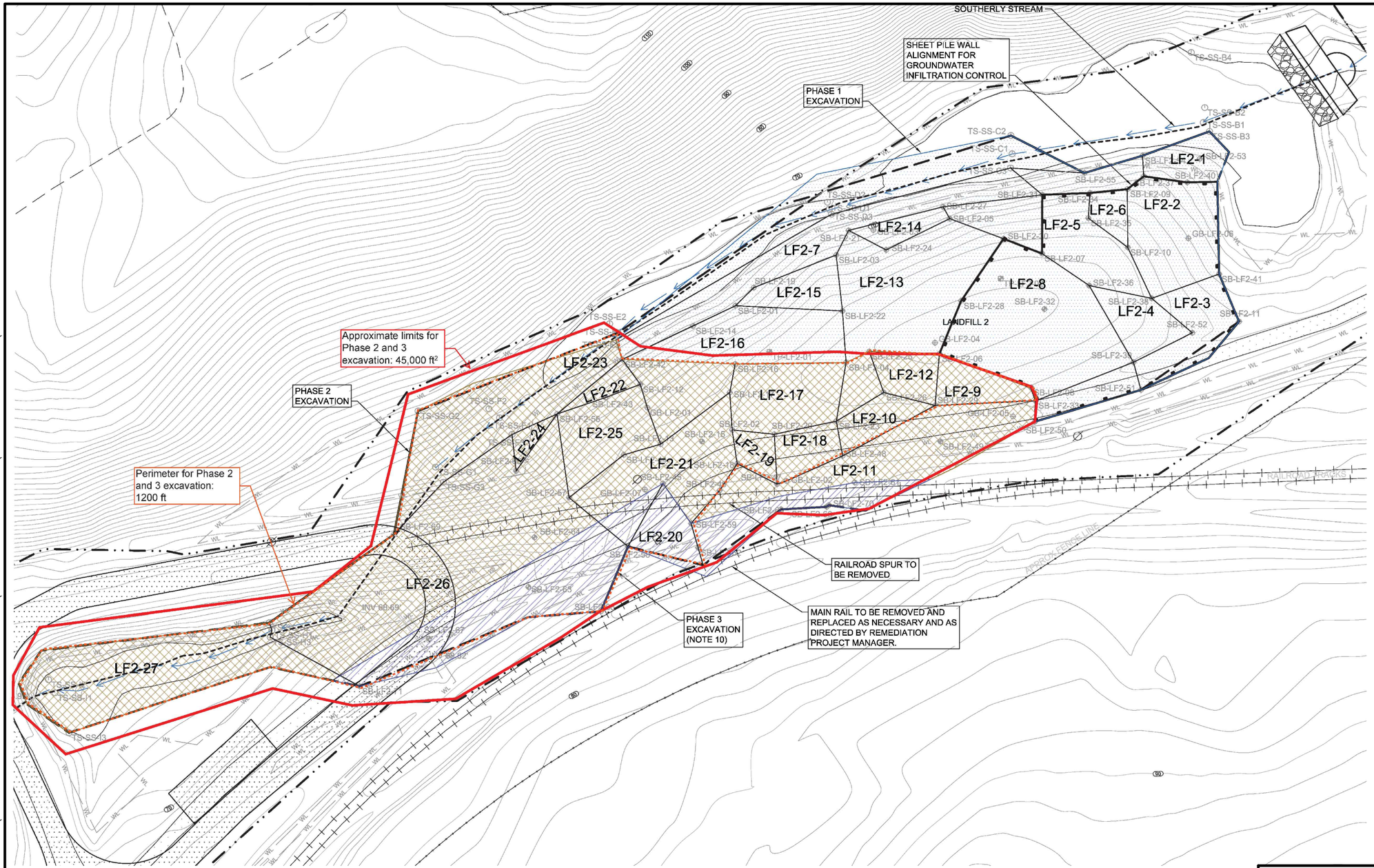
PHASE I EXCAVATION AREA
ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | January 2016

Figure: 1

R:\DEPT\PROJECTS\1930 – REMEDIATION\BR0292 – ORRINGTON REMEDIATION SITE\4.0 DATA AND ANALYSIS\4.15 SLOPE STABILITY\BR0292.TB
11X17 – STANDARD PHASE 1



PHASE 2 & 3 EXCAVATION AREA
ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | January 2016

Figure: 2

R:\DEPT\PROJECTS\1930 – REMEDIATION\BR0292 – ORRINGTON REMEDIATION SITE\4.0 DATA AND ANALYSIS\4.15 SLOPE STABILITY\BR0292.TB
TXT7 – STANDARD\PHASE 2

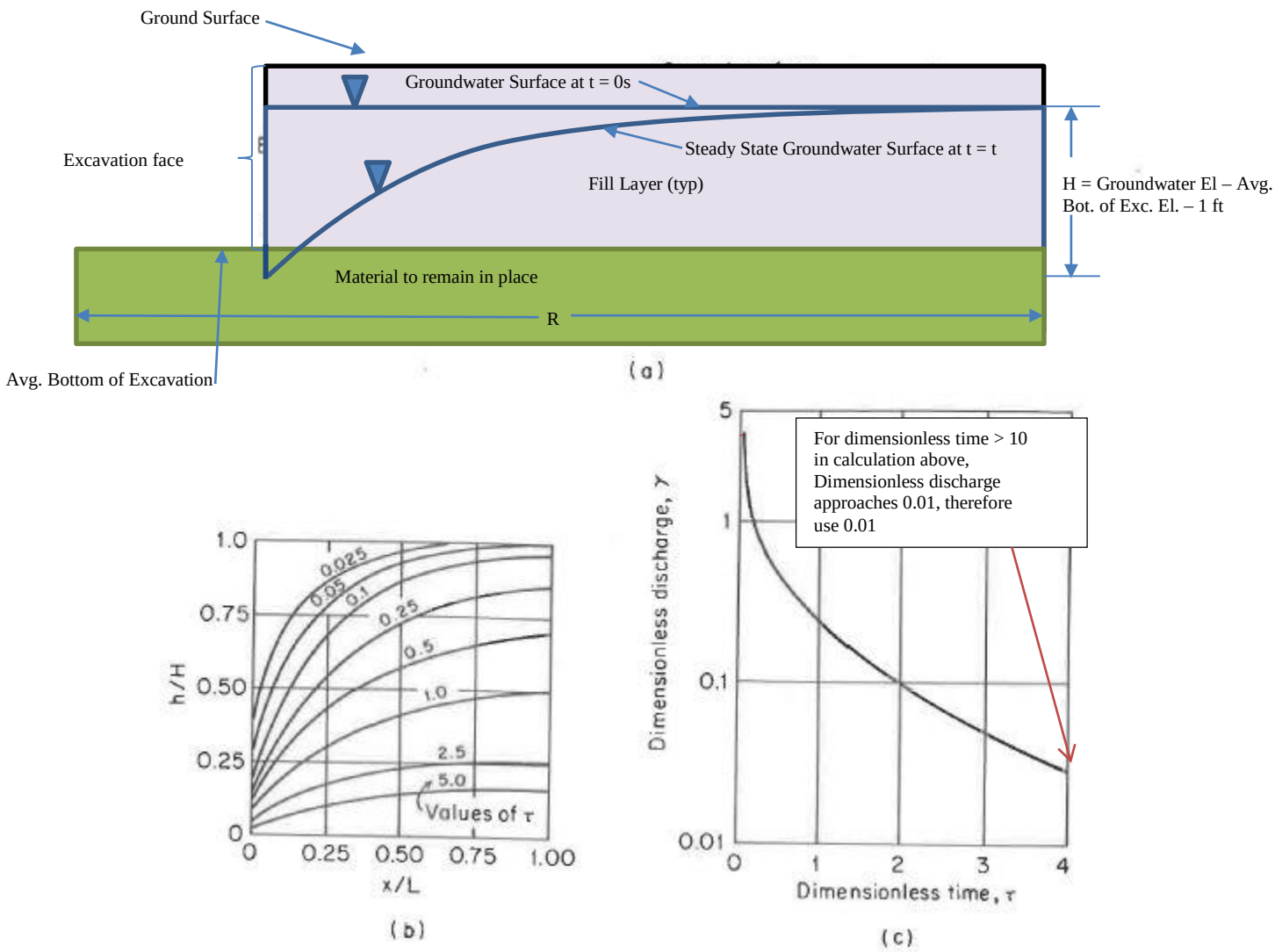


Figure 3: a) Schematic of Landfill Ridge subsurface and excavation face; b and c) prediction of groundwater inflows into an excavation (after Ibrahim and Brutsaert, 1965).

ATTACHMENT A
SUPPORTING DOCUMENTS

Contact Water Calculation - Groundwater Volume Estimate
Landfill 2 Excavation plan
Orrington Remediation Site

Phase 1 Excavation

Excavation Area ID	z_{bottom} [1] (ft)	Area (ft^2)	Area * y_{bottom} (ft^3)
LF2-1	64.5	760.9	4185
LF2-2	64.5	2996.9	16483
LF2-3	69.5	1208.9	604
LF2-4	65.5	927.8	4175
LF2-5	59.0	1564.2	17206
LF2-6	59.0	401.6	4418
LF2-7	62.5	2881.1	21608
LF2-8	62.5	5314.8	39861
LF2-13	56.5	3825.2	51640
LF2-14	57.0	458	5954
LF2-15	62.5	853.9	6404
LF2-16	55.0	2323	34845
	Σ:	23,516.3	207,384

Phase 2 Excavation

Excavation Area ID	z_{bottom} [1] (ft)	Area (ft^2)	Area * y_{bottom} (ft^3)
LF2-9	68.0	775.9	1552
LF2-10	56.5	699.3	9441
LF2-11			
LF2-12	56.5	692.6	9350
LF2-13	56.5	441	5954
LF2-16	55.0	1296	19440
LF2-17	55.0	1795.4	26931
LF2-18	65.0	703.3	3517
LF2-19	65.5	416.8	1876
LF2-20	66.5	755.8	2645
LF2-21	59.0	2741	30151
LF2-22	55.0	332.1	4982
LF2-23	64.0	5864.9	35189
LF2-24	63.5	214.7	1396
LF2-25	55.0	1588.3	23825
LF2-26	63.5	11227.1	72976
LF2-27	60.5	4317.5	41016
	Σ:	33,861.7	290,239

61.2 = Average (area-weighted) Bottom of Excavation Elevation
60.2 = Avg (area-weighted) Bottom of Excav. El. Minus 1 ft.

61.5 = Average (area-weighted) Bottom of Excavation Elevation
60.5 = Avg (area-weighted) Bottom of Excav. El. Minus 1 ft.

Note:
1. Excavation areas are considered for the weighted average if the bottom of excavation elevation is lower than
2. y_{bottom} = bottom of excavation elevation for that excavation area as obtained from the Landfill 2 Drawings.

APPENDIX I-3

Slope Stability Calculation

DRAFT

Written by: P. Andonyadis Date: 19 Nov 2015 Reviewed by: P. Sabatini Date: 02 Dec 2015

Client: Mallinckrodt Project: Orring. Rem. Site Project/Proposal No.: BR0292 Phase No.: 11

STABILITY ANALYSIS

LANDFILL 2 EXCAVATION

INTRODUCTION

The purpose of this calculation package is to assess the computed stability of the proposed excavation slopes of the Orrington Remediation Landfill 2 site (Site). The Site is being excavated to remove soils that exceed the Media Protection Standards. The objective is to excavate for stable slope configurations or install earth retention systems to allow for removal of soils that exceed the Media Protection Standards. Static stability for the excavation slopes is considered for a critical cross section location.

EXISTING CONDITIONS

Existing site grades are shown on Drawing Number 4 of the Corrective Measures Implementation Plan (CMI plan) drawing set. The critical cross section location (used for slope stability analyses) corresponds to Cross Section B-B' (see Figure 1). The existing topography, stratigraphy, and proposed target excavation elevations along Cross Section B-B' are shown in Figure 2. The interpreted stratigraphy is based on site investigation information including boring logs and geologic site descriptions as presented in the Landfill 2 CMI Plan. The stratigraphy in this area generally consists of fill (CMI Plan Stratum 1) underlain by silts (CMI Plan Stratum 2, 3, and 4), underlain by till (CMI Plan Stratum 5 and 6), underlain by bedrock (CMI Plan Stratum 7).

Groundwater elevations for the stability calculations were evaluated based on existing groundwater levels measured at wells B-301-O2, B-301-O1, B-301-B1, PZLF-2, MW-409-B1, MW-409-O1, and P-9. The readings were taken between July and August 2015. The highest water level reading was observed at PZLF-2 with a water level at Elevation 69.5 ft. In addition, groundwater elevations were evaluated using information in boring logs, namely the depth to material saturation (i.e. the depth at which the material was observed as "wet" on the boring logs). On average around the Site, the groundwater elevation was observed to be between Elevation 68 and Elevation 70 ft. The groundwater table was conservatively taken to be Elevation 70 ft for the entire Site. For the stability analyses it was assumed that the groundwater level will be lowered within the excavation and maintained at approximately 1 ft below the excavation ground surface.

PROPOSED EXCAVATION PLAN

Target elevations for excavation and removal of contaminated soils were established on a per cell basis and are shown on Drawing Number 9 of the CMI Plan drawing set. To reach the

target elevations, the Remediation Contractor may employ one or several excavation methods including:

- Method A: install sheet pile walls to retain earth and provide for a stable vertical face for excavation in areas were significant vertical excavation is required.
- Method B: excavate up to 4-ft high benches with a near vertical face and then buttress excavation surface with clean fill material graded to a 2 horizontal to 1 vertical (2H:1V) slope.

The excavation is planned to be conducted in a minimum two phases. Phase 1 of the excavation will begin from the east side of the landfill and extend to the center of the landfill towards the Spur line. During Phase 1 excavation, the spur railroad line and main railroad line will remain operational and 2.5 H:1V slopes will be excavated into existing materials.

During Phase 2 excavation, the spur railroad line will be decommissioned and removed and the remaining excavation will be completed. Based on Pan Am Railway restrictions, shoring is not required in zones beyond the zone of influence of an active railway. The zone of influence extends at 2H:1V slope downward beginning at a 5 ft offset from the edge of the tracks. On Drawing Number 11 of the CMI Plan drawing set, the area labelled as Phase 3 delineates the zone where shoring may be required if the main railway remains active during remediation.

Excavation operations and construction operations along the main railroad line will be performed when the line is not active or loaded. It is assumed that all vertical benches cut along the main railroad alignment will be buttressed with 2H:1V slope of clean fill before the line is again loaded or active. Therefore, no vertical excavation will be cut or be unsupported when a train is passing along the main railroad line.

ANALYSIS CROSS SECTION

The selected cross section used for the slope stability analyses is Cross Section B-B'. This cross section represents critical excavation geometry because it crosses the spur railroad line, the main railroad line, and portions of the deepest targeted excavations located within cells LF-20, LF2-21, and LF2-25.

The anticipated excavation geometries for each method and phase of excavation were analyzed along Cross Section B-B'. Three scenarios were developed and analyzed, including:

Scenario 1: This scenario considers Phase 1 excavation grades with a 2.5H:1V excavated slope extending from the spur railroad line to the target cell, as shown in Figure 3. The purpose of this analysis is to assess the calculated stability of the excavation face during Phase 1 excavation.

Scenario 2a: This scenario considers Phase 2 excavation with Method A excavation implemented. For this scenario, a cantilevered steel sheet pile retaining wall is modeled along the main railroad line with maximum 4 ft vertical benches at deeper portions of the excavation, as shown in Figure 4.

Scenario 2b: This scenario considers Phase 2 excavation grades with Method B excavation implemented for the entire excavation. For this scenario, 4 ft high vertical benches were modeled from the main railroad line down to target excavation grades, as shown in Figure 5.

METHODOLOGY

Slope stability analyses were performed for static conditions using the Simplified Bishop (1955) and Spencer (1967) procedures as implemented in the computer program SLIDE®, version 6.034. These methods were selected for global stability analysis because the Simplified Bishop method assumes circular slip surface and horizontal forces between slices and the Spencer method is a force and moment equilibrium method applicable to virtually all slope geometries and profiles (Duncan et al. 2005). Circular and translational slip surfaces were considered in the analyses.

A target factor of safety (FS) of 1.3 is used to evaluate static stability post construction conditions. The target minimum FS is consistent with the target factor of safety for static conditions equal to 1.3 recommended by the US Army Corps of Engineers Slope Stability Manual (Duncan et al., 2005).

Factors of safety calculated in SLIDE® are evaluated for critical surface geometries that extend into the soil mass to some depth based on radius of the circular surface being evaluated. The SLIDE® model input allows the user to filter out shallow critical surfaces that may be generated by a circular or planar search by setting a minimum vertical depth requirement for the surface geometry. For the purposes of this evaluation, a minimum depth requirement of 3 ft was used to filter out “shallow sloughing” surfaces for which lower factors of safety are sometimes calculated with cohesionless soils.

MATERIAL PROPERTIES

Material properties used in the stability analyses are described below and summarized in Table 1.

In general, soil moist unit weight was estimated for each material based on lab measured moisture contents and assumed specific gravity values that were considered representative of each soil unit.

Generally the native materials and fills are non-plastic to low plasticity (with a plasticity index (PI) value less than 8) and is therefore modelled with drained shear strengths.

Estimates of drained shear strengths were developed based on laboratory data and SPT N value correlations.

The field measured SPT N-values N_m were corrected for field procedures N_{60} and overburden stress $(N_1)_{60}$. The calculation for N_{60} is given as:

$$N_{60} = N_m C_E C_B C_R C_S \tag{1}$$

and $(N_1)_{60}$ is given as:

$$(N_1)_{60} = N_{60} C_N \tag{2}$$

N_m is the measured SPT N-value, and C_N, C_E, C_B, C_R, and C_S are correction factors summarized in Table 2. Correction factors were determined under the following assumptions:

- An automatic-trip hammer was used; an energy ratio factor (C_E) of 1.45[1] was assigned; and
- The borehole diameter was 4 in.; a borehole diameter factor (C_B) of 1.0 was used.

Corrections for saturated very fine or silty sand units were applied. The SPT N-values were corrected for dynamic pore pressure effects, if N_m values exceeded 15. The corrected N-values (N'_m) were calculated following the recommendation by Meyerhof (1956), or:

$$N'_m = 15 + \frac{N_m - 15}{2} \; if \; N_m > 15 \tag{3}$$

The drained shear strength was estimated based on Hatanaka and Uchida's (1996) correlation to SPT N Values corrected for overburden $(N_1)_{60}$, as presented in Geotechnical Engineering Circular No. 5 (Sabatini et al., 2002) and as shown below. Cohesion values were conservatively assumed to be zero for all soils.

$$\varphi' = \sqrt{15.4(N_1)_{60}} + 20° \tag{4}$$

In addition, direct shear tests were performed on samples of Till and Native Silt. The direct shear laboratory test data are presented in Attachment A1 and computations using SPT test data are presented in Attachment A2.

[1] Hammer efficiency values are based on recommendations by Kelley et. al. (2010) for automatic hammers on CME track drill rigs.

Existing Fill **–** The top of the unit is at the ground surface and extends down 9 ft below ground surface (bgs) in the Landfill 2 Area, along Cross Section B-B'. This unit comprises very loose to dense silty or clayey sand. The drained friction angle was estimated to be 34° based on observed SPT N-values. The total unit weight was estimated to be 129 pcf based on average moisture content of 19.6% within the saturated fill and assumed solids specific gravity of 2.6. This unit is Stratum 1 defined in the CMI Plan drawings.

Silts **–** The top of the unit ranges from 2 ft bgs to 9 ft bgs and extends down 19 ft bgs in the Landfill 2 Area, along Cross Section B-B'. This unit comprises loose to dense silt with fine sand. The drained friction angle was estimated to be 35° based on direct shear test results (provided in Attachment 1). The total unit weight was estimated to be 134 pcf based on average moisture content of 14.8% within the saturated fill and assumed solids specific gravity of 2.6. This unit is Stratum 2, 3, and 4 defined in the CMI Plan drawings.

Till – The top of native till ranges from 4 ft bgs to 19 ft bgs in the Landfill 2 Area, along Cross Section B-B'. The material comprises hard sandy silt with gravel, with approximately 48 to 58 percent passing the No. 200 sieve. The drained friction angle was estimated to be 40° based on direct shear test results (provided in Attachment 1) for the typical normal stress range anticipated along the side slopes. The total unit weight was estimated to be 143 pcf based on average moisture content of 9.4% within the saturated fill and assumed solids specific gravity of 2.6. This unit is Stratum 5 and 6 defined in the CMI Plan drawings.

Clean Fill **–** This material is assumed to be similar to the Existing Fill and was modeled with the same geotechnical parameters.

DESIGN ASSUMPTIONS

The following assumptions were considered for the analyses:

- For the global stability analyses of sheet pile wall braced excavation, Scenario 2a, it was assumed that the wall will be embedded 4 ft into the Till. If the sheet pile wall is designed as a cantilevered wall with no additional lateral support system (such as tieback anchors), then a deeper embedment than 4 ft into the Till will be required for fixity, with an embedment depth typically 1 to 1.5 times of the exposed wall height. Therefore, these analyses are conservative because actual embedment depths for the sheet pile wall (based on final design computations for the sheet pile wall) will be deeper than those used herein.
- The embedded portion of the wall elements within the Till was assumed to provide some shear resistance based on the capacity of the soil. We conservatively assumed that the maximum shear resistance that could be provided by the wall (if a failure mechanism were to go through the wall) would be equivalent to the calculated pullout resistance of the wall below the failure surface. To model pullout failure, it was conservatively assumed that the shear strength of the wall element was no greater than

the calculated interface shear resistance between a sheet pile and the surrounding ground below the failure surface. For this analysis it was assumed that the shear resistance would be developed along the portion of the sheet pile wall embedded in the Till. The interface shear resistance, f_s, was calculated based on the SPT based Meyerhof method (Arcelor RPS 2005):

$$f_s(kN) = 2 \times N \times A_s \tag{5}$$

Where:

N: is the SPT blow count. For this calculation the average $(N_1)_{60}$ for the Till was used, 40;

A_s: the surface area per pile in m^2. For this calculation, assuming that the sheet pile provides 2 ft^2 of surface area (i.e., 1 ft^2 on the front face and 1 ft^2 on the back face) for each linear ft of embedment below the failure surface (4 ft) on a per linear ft of the sheet pile wall alignment. A_s is calculated to be 8 ft^2/lf;

Therefore:

$$f_s = 2 \times 40 \ \times 8\, ft^2/lf \times \frac{1\, m^2}{10.764\, ft^2} \times \frac{1\, kip}{4.448\, kN} = 13.36\, kip/lf$$

This value is significantly less than the typical allowable shear capacity of steel sheet piling, which exceeds 100 kip/lf. Therefore, the wall would fail in pullout before it would fail in shear through the wall.

- Dewatering will occur before excavation begins and water levels will be lowered to 1 ft bgs.
- The crest of side slopes and the edge of a sheet pile wall will be set a minimum of 15 ft laterally from the centerline of any operational railroad line.
- The alignment of the cantilevered steel sheet pile wall will be a minimum of 15 ft laterally from the centerline of any operational railroad line.
- Train loading on the railroad lines was modelled with a Copper E80 loading (two lines of 8 kip/ft loading). The cumulative loading was distributed over the 9 ft wide ties and modelled as a 9 ft wide 1.8 ksf surcharge load.
- During vertical benching along the main railroad line, the railroad line will not be active and all vertical benches will be buttressed with clean fill before the main railroad line is active or loaded.

STABILITY ANALYSIS RESULTS

A summary of the computed FS values from the SLIDE® model analyses are presented in Table 3. SLIDE output figures and a data output file for the static planar condition for are presented in Attachment B.

The results of the static stability analyses indicate a minimum FS value of 1.3 for static analyses of the proposed excavation grades for each scenario.

CONCLUSIONS AND RECOMMENDATIONS

The slope stability analysis results indicate that for the conditions analyzed, i.e.,: (i) Scenario 1 with Phase 1 excavation grades, (ii) Scenario 2a with Phase 2 excavation grades and a sheet pile wall and (iii) Scenario 2b with Phase 2 excavation grades and benching, result in a calculated FS value greater than the target value of 1.3. Based on the various input considerations (e.g., material properties, subsurface conditions, etc.) and the results of these analyses, the following recommendations are made for final design:

- Excavation grades within existing materials should be no steeper than 2.5H:1V in areas where buttressing with clean fill is not performed.
- Vertical benching shall be limited to a maximum height of 4 ft. Vertical benches excavated along the main railroad line shall be buttressed with compacted clean fill when the line is active or loaded. All vertical benches shall be buttressed within 10 hr of excavation.
- Target global stability for a cantilevered steel sheet pile wall can be maintained if the alignment of the wall is a minimum of 15 ft from the centerline of an operational rail line.
- The crest of excavation slopes shall be set a minimum of 15 ft from the centerline of any operational rail lines.
- The minimum required embedment for the sheet pile shall be 4 ft into the Till for global stability of the excavation. Additional embedment may be required for internal stability of the sheet pile wall and shall be engineered by the Remediation Contractor's engineer during wall design, if Method A is selected for excavation.
- The railroad lines should be monitored for lateral and vertical, and differential deflection to excavation operations. An active rail road line should be regularly surveyed on a daily basis when there is an open excavation within 5 horizontal to 1 vertical projection laterally off the edge of tracks. Surveying should be performed every 25 ft along the railroad alignment at survey markers located within 5 ft of the railroad centerline. If greater than 1/8 inch of total movement is observed relative to the baseline survey, nearby excavation work shall be stopped and the Remediation Project Manager shall be notified.
- If Site conditions change or are different than those assumed in the calculations, then the results and recommendations shall be re-evaluated.

Written by: P. Andonyadis Date: 19 Nov 2015 Reviewed by: P. Sabatini Date: 02 Dec 2015

Client: Mallinckrodt Project: Orring. Rem. Site Project/Proposal No.: BR0292 Phase No.: 11

Table 1: Summary of Material Parameters used for Design

Material Layer Name	CMIP Drawings Stratum	$(N_1)_{60}$ for design(1)	Average Moisture content (%)(2)	Direct shear strength results(3)		Design Unit Weight (lb/ft^3)(4)	φ' based on Hatanaka and Uchida (1996) (°)	Design Friction Angle (°)
				c' (psf)	ϕ' (°)			
Existing Fill	1	13	19.6	N/A	N/A	129	34.1	34(5)
Silts	2, 3, 4	20	14.8	66.5	35.2	134	37.5	35(6)
Till	5, 6	40	9.4	330	33.2	143	44.8	40(6)
Clean Fill(7)	N/A	N/A	N/A	N/A	N/A	129	N/A	34

Notes:

1. Field measured SPT N-values were corrected for field techniques and overburden. Representative values used to develop design parameters are presented in this table.
2. Moisture contents of select samples were taken as part of Atterberg testing. Representative values used to develop design parameters are presented in this table.
3. Direct shear testing was performed on reconstituted samples of Silts and Till. Effective friction, c', and effective friction angle, ϕ', were interpreted from the testing.
4. Moist unit weights used for design were calculated based on the assumption that soil samples tested for moisture content were saturated and assumed specific gravity of the solids is 2.6.
5. Design friction angle interpreted based on correlation by Hatanaka and Uchida (1996).
6. Selected design friction angle interpreted to be representative for the normal stress range of the excavated slopes.
7. Clean fill is assumed to have the same design parameters as Existing Fill.

Table 2. Selected SPT Correction Factors (after Robertson and Wride, 1998, in Youd et. al., 2001)

Factor	Equipment variable	Correction	Selected Correction
Overburden pressure, C_N	-	$\begin{cases} C_N = \sqrt{1/\sigma'_v} \\ C_N \leq 1.7 \end{cases}$	Variable
Energy Ratio, C_E	Automatic-trip hammer	0.8 - 1.3	1.45(1)
Borehole diameter, C_B	65 - 115 mm	1.00	1.00
Rod Length, C_R	<3 m	0.75	0.75
Rod Length, C_R	3 - 4 m	0.80	0.80
Rod Length, C_R	4 - 6 m	0.85	0.85
Rod Length, C_R	6 - 10 m	0.95	0.95
Rod Length, C_R	10 - 30 m	1.00	1.00
Liner, C_S	Sampler without liners	1.1 - 1.3	1.20

Note

1) 1.5 selected based on hammer efficiency values recommended by Kelley et. al. (2010) for automatic hammers on CME track drill rigs

Table 3: Summary of the Calculated Factors of Safety for Model Conditions

Model Condition	Slip Surface	Method	Calculated FS for the Critical Slip Surface, FS.	Figure Number
Scenario 1: Phase 1 excavation along Cross Section B-B'	Rotational	Simplified Bishop	1.38	B-1
		Spencer	1.38	B-2
	Translational	Spencer	1.37	B-3
Scenario 2a: Phase 2 excavation along Cross Section B-B', with steel sheet pile wall	Rotational	Simplified Bishop	1.55	B-4
		Spencer	1.61	B-5
	Translational	Spencer	1.38	B-6
Scenario 2a: With pullout failure of the sheet pile wall	Rotational	Simplified Bishop	1.96	B-7
		Spencer	1.93	B-8
	Translational	Spencer	1.83	B-9
Scenario 2b: Phase 2 excavation along Cross Section B-B', with benched excavation	Rotational	Simplified Bishop	1.51	B-10
		Spencer	1.51	B-11
	Translational	Spencer	1.35	B-12

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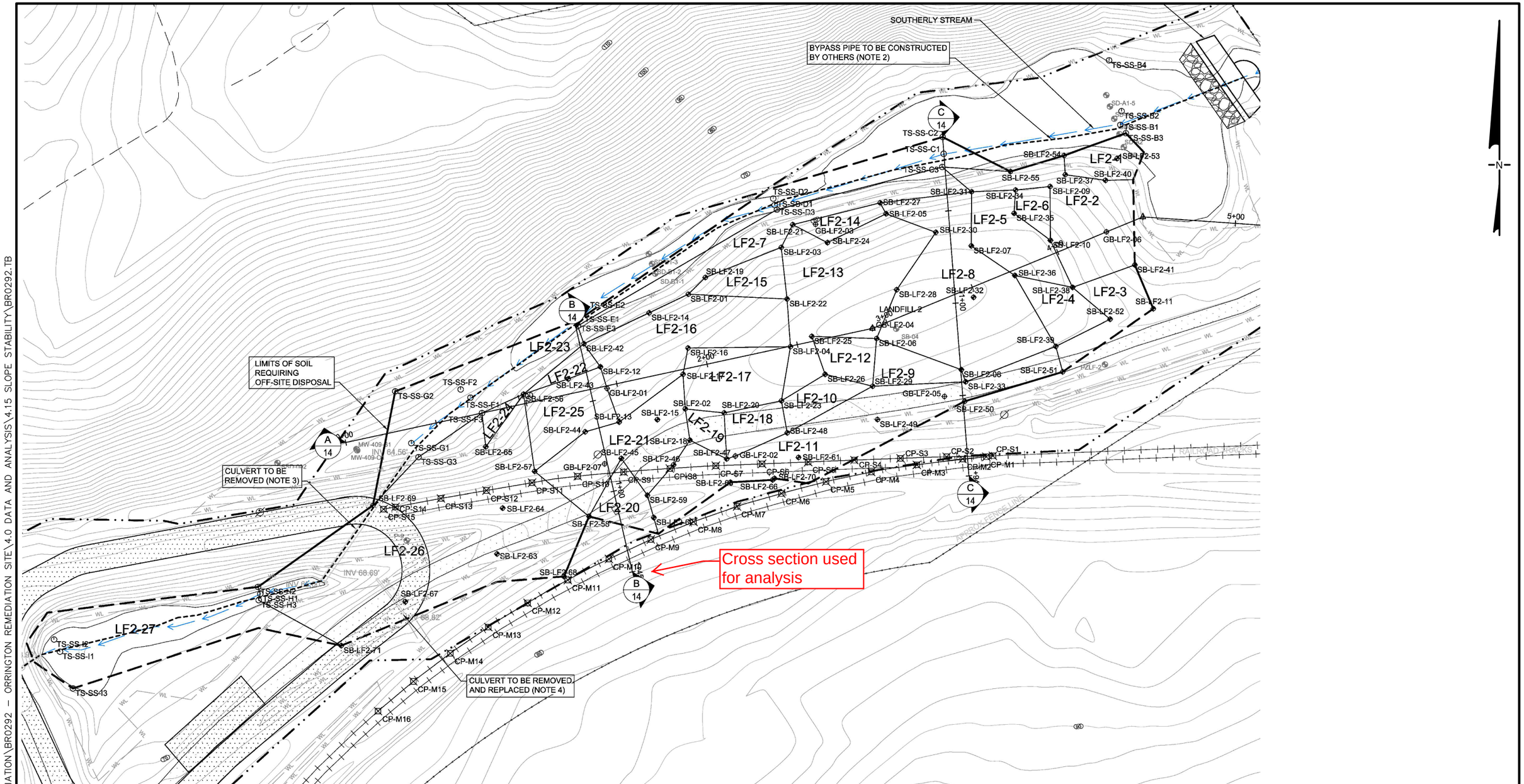
FIGURES



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TXT – STANDARD FIGURE 1

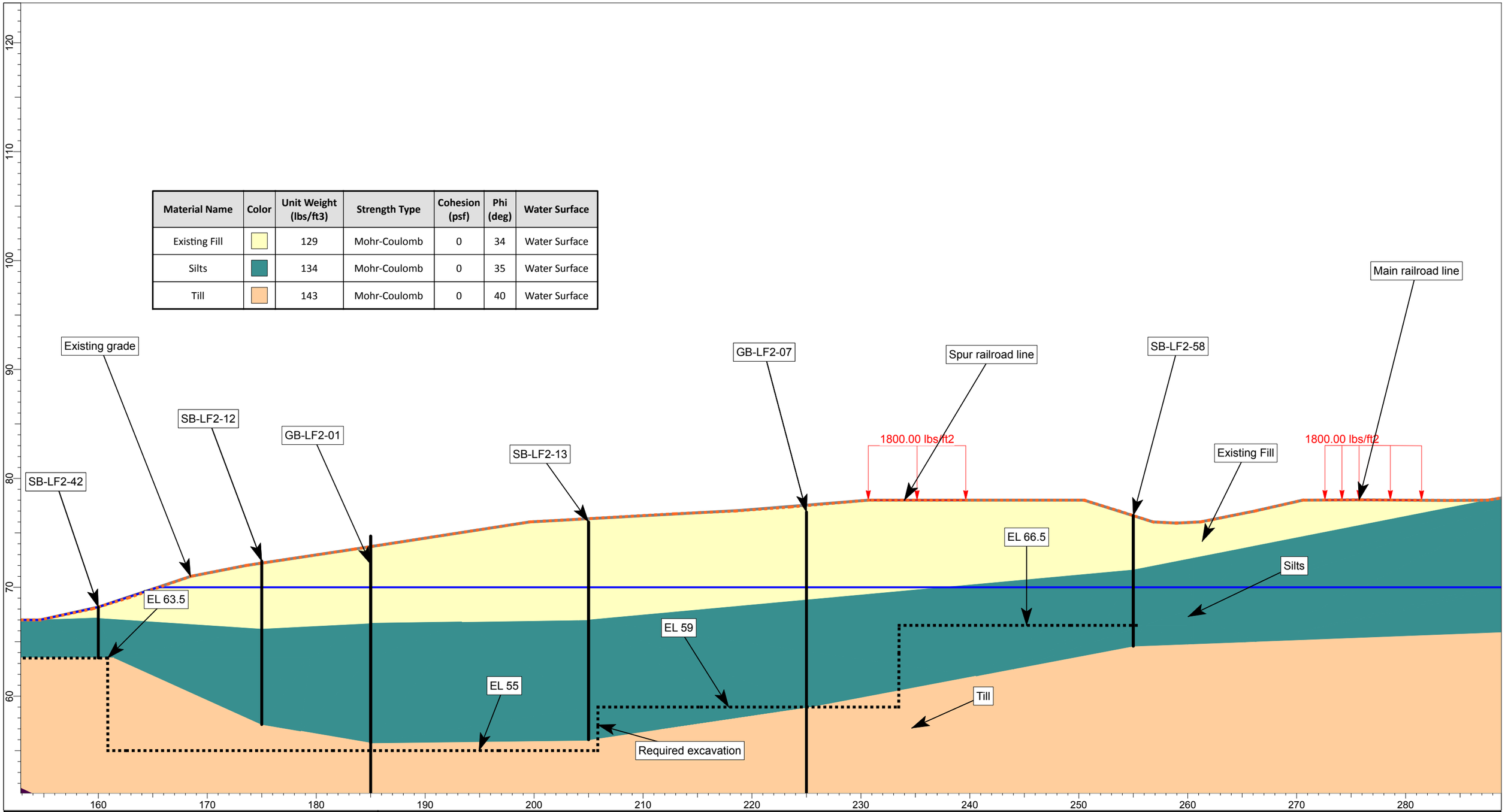
AERIAL VIEW OF SITE
ORRINGTON REMEDIATION SITE
ORRINGTON, MAINE

CDM Smith | Geosyntec consultants

Acton, MA | January 2016

Figure: 1

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface



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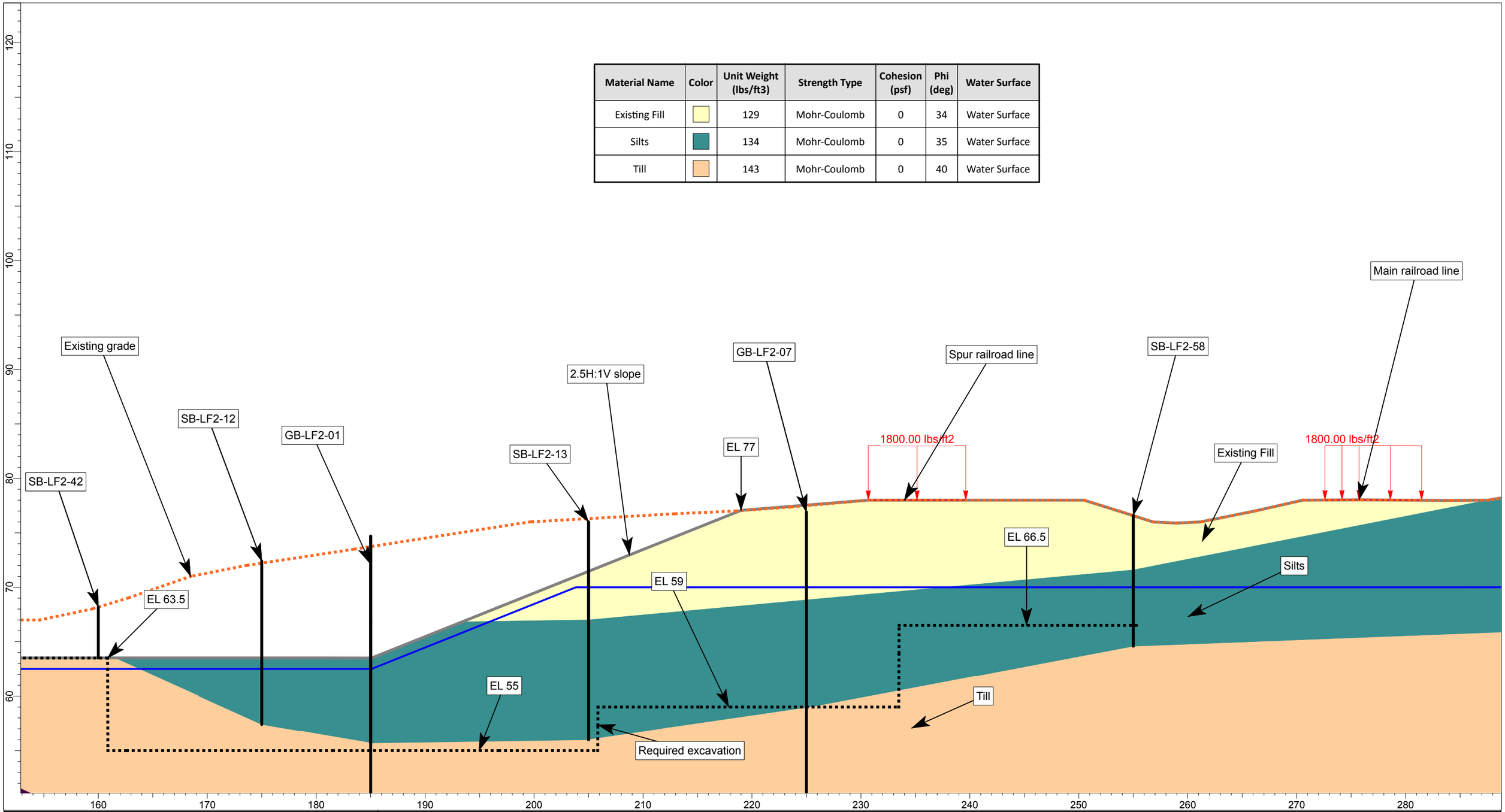
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Existing Conditions
Analysis By	PA
Client	Mallinckrodt US LLC
Date	18 November 2015
Scale	1:100
File Name	Figure 2-Existing condition section.slim

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface



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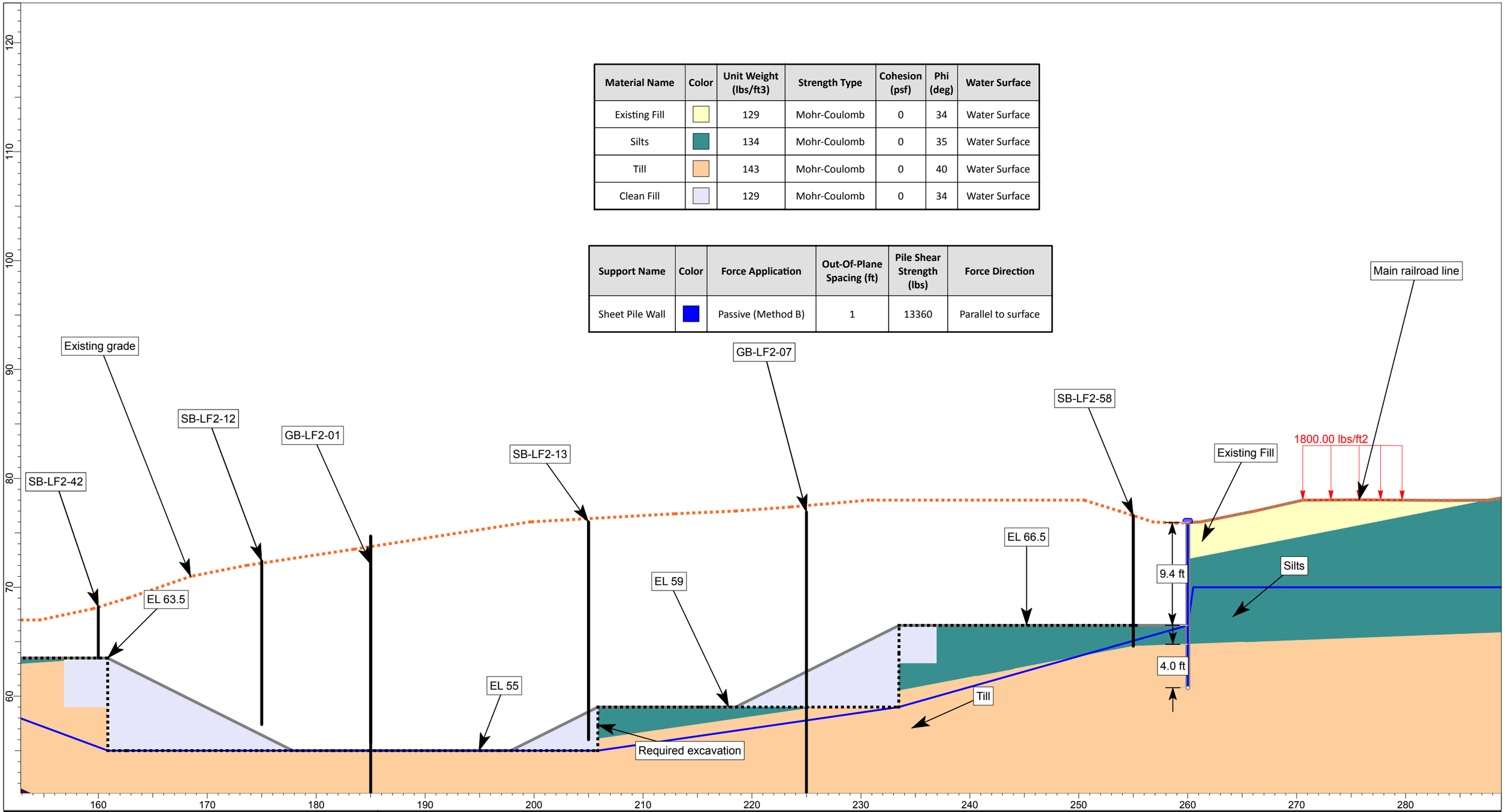
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Figure 3-Cross Section B-B'-Scenario 1
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	Figure 3-Scenario 1.slim

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Parallel to surface



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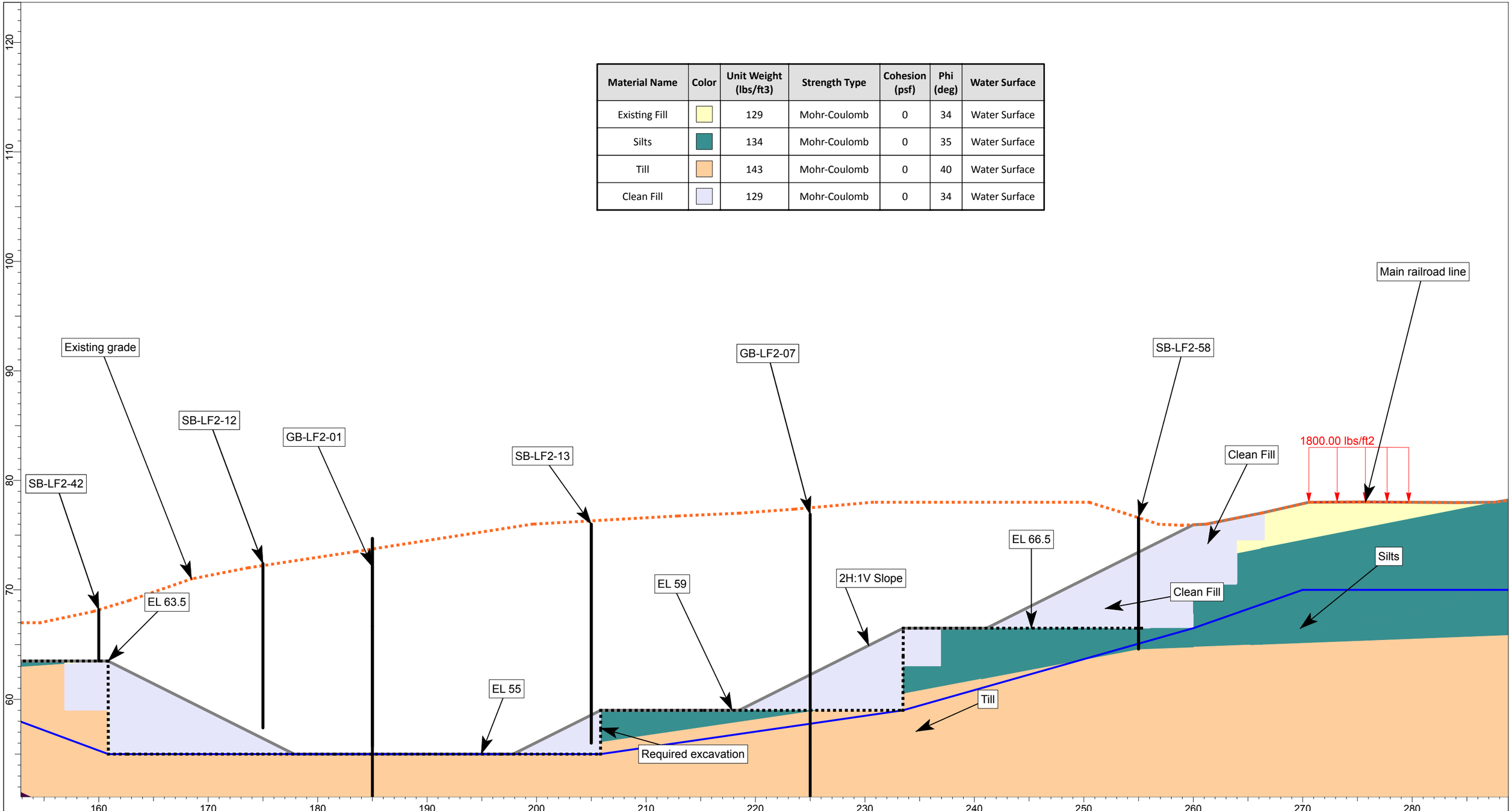
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Figure 4 - Cross Section B-B'-Scenario 2a
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	Figure 4-Scenario 2a.slim

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface



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SLIDEINTERPRET 6.037

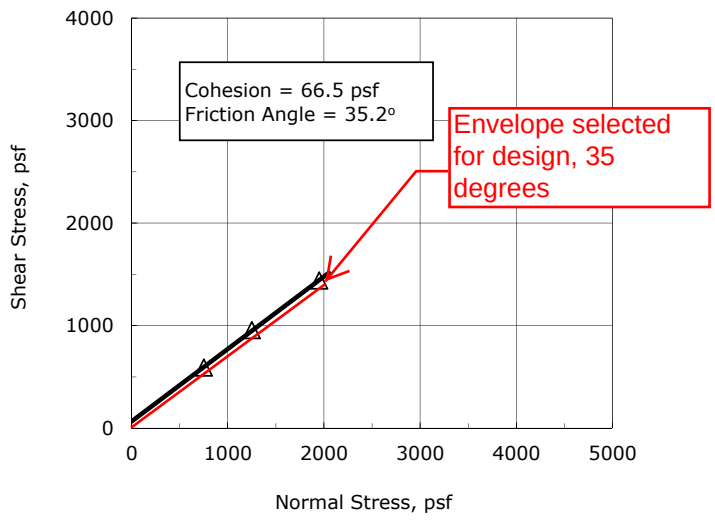
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Figure 5 - Cross Section B-B'-Scenario 2b
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	Figure 5-Scenario 2b.slim

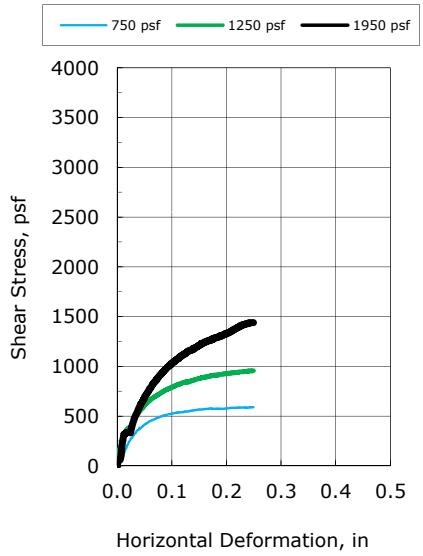
ATTACHMENT A
Supporting Documents

A1 – Direct Shear Test Data

Client:	CDM Smith	ATTACHMENT A1
Project Name:	Orrington Remediation Site	Native Silty Sand
Project Location:	Orrington, ME	
GTX #:	302787	
Test Date:	08/12/15	
Tested By:	md	
Checked By:	jdt	
Boring ID:	---	
Sample ID:	GB-LF2-02-150618-4.5-19	
Depth, ft:	---	
Visual Description:	Moist, gray clay	

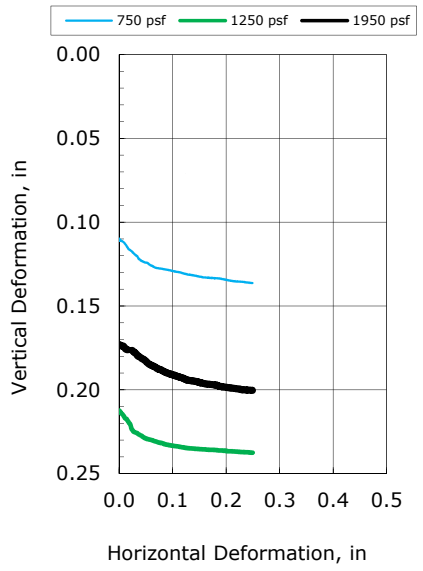
Direct Shear Test of Soils Under Consolidated Drained Conditions by ASTM D3080





Test No.:	DS-34	DS-35	DS-36
Initial Diameter, in:	2.5	2.5	2.5
Initial Height, in:	1.0	1.0	1.0
Initial Mass, grams:	142	142	142
Initial Dry Density, pcf:	96.5	96.5	96.5
Initial Moisture Content, %:	14.0	14.0	14.0
Initial Bulk Density, pcf:	110	110	110
Initial Degree of Saturation:	49.4	49.3	49.3
Initial Void Ratio:	0.78	0.78	0.78
Final Dry Density, pcf:	112	127	121
Final Moisture Content, %:	20.4	16.4	16.5
Final Bulk Density, pcf:	135	147	141
Normal Stress, psf:	750	1250	1950
Maximum Shear Stress, psf:	591	957	1440
Shear Rate, in/min:	0.001	0.001	0.001

Sample Type:	reconstituted
Estimated Specific Gravity:	2.75
Liquid Limit:	---
Plastic Limit:	---
Plasticity Index:	---
% Passing #200 sieve:	---
Soil Classification:	---
Group Symbol:	---



Notes: Material greater than #5 sieve screened out of sample prior to testing

Moisture content obtained before shear from sample trimmings

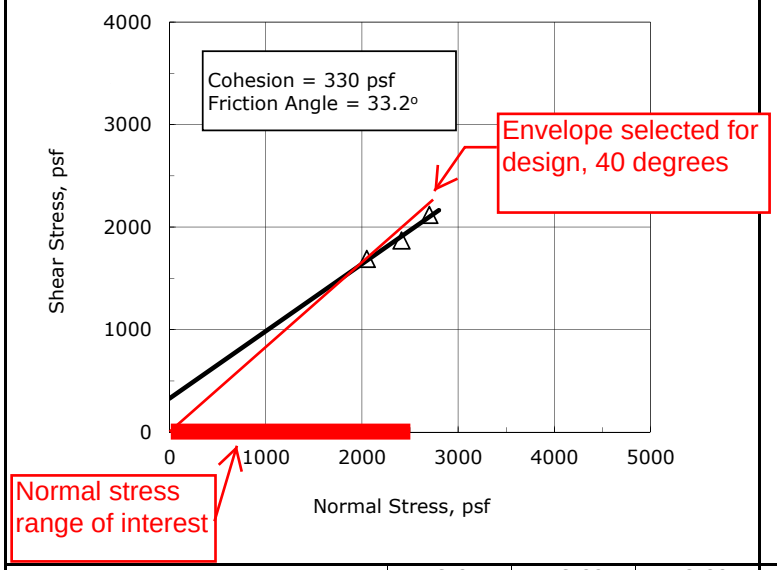
Moisture Content determined by ASTM D2216

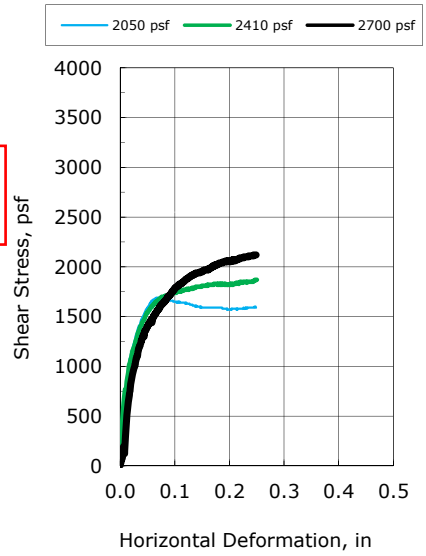
Target Compaction: 110 pcf at the as-received moisture content (values provided by client).
Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

"---" indicates testing required to determine these values was not requested.

Client:	CDM Smith	ATTACHMENT A1
Project Name:	Orrington Remediation Site	Till
Project Location:	Orrington, ME	
GTX #:	302787	
Test Date:	08/12/15	
Tested By:	md	
Checked By:	jdt	
Boring ID:	---	
Sample ID:	GB-LF2-02-150618-19-44	
Depth, ft:	---	
Visual Description:	Dry, gray clay	

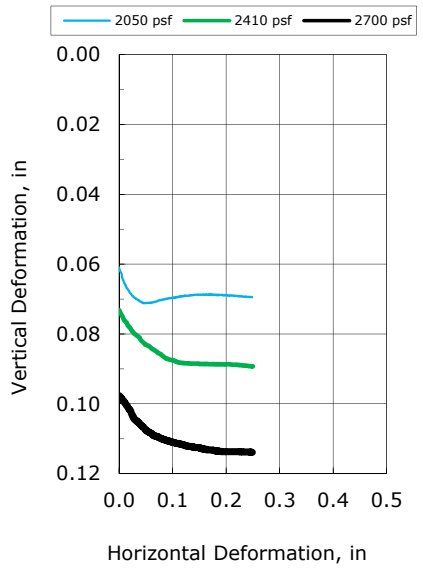
Direct Shear Test of Soils Under Consolidated Drained Conditions by ASTM D3080





Test No.:	DS-31	DS-32	DS-33
Initial Diameter, in:	2.5	2.5	2.5
Initial Height, in:	1.0	1.0	1.0
Initial Mass, grams:	168	168	168
Initial Dry Density, pcf:	119.2	119.1	119.1
Initial Moisture Content, %:	9.1	9.1	9.1
Initial Bulk Density, pcf:	130	130	130
Initial Degree of Saturation:	56.8	56.9	56.9
Initial Void Ratio:	0.44	0.44	0.44
Final Dry Density, pcf:	128.0	130.8	134.5
Final Moisture Content, %:	12.0	12.1	12.1
Final Bulk Density, pcf:	143	147	151
Normal Stress, psf:	2050	2410	2700
Maximum Shear Stress, psf:	1690	1870	2120
Shear Rate, in/min:	0.001	0.001	0.001

Sample Type:	reconstituted
Estimated Specific Gravity:	2.75
Liquid Limit:	---
Plastic Limit:	---
Plasticity Index:	---
% Passing #200 sieve:	---
Soil Classification:	---
Group Symbol:	---



Notes: Material greater than #5 sieve screened out of sample prior to testing

Moisture content obtained before shear from sample trimmings

Moisture Content determined by ASTM D2216

Target Compaction: 130 pcf at the as-received moisture content (values provided by client).
Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

"---" indicates testing required to determine these values was not requested.

A2 – Corrected N-values

Boring ID:	GB-LF2-01	
Ground Surface Elevation:	74.7	ft
Water Elevation:	66.7	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
73.7	1	10	FILL	125	0.06	1.70	0.75	10	13	22
71.7	3	6	FILL	125	0.19	1.70	0.75	6	8	13
69.7	5	2	FILL	125	0.31	1.70	0.75	2	3	4
67.7	7	6	FILL	125	0.44	1.51	0.75	6	8	12
65.7	9	19	N. SM	135	0.51	1.41	0.75	17	22	31
63.7	11	17	N. SM	135	0.58	1.32	0.75	16	21	27
61.7	13	21	N. SM	135	0.65	1.24	0.85	18	27	33
59.7	15	40	N. SM	135	0.72	1.18	0.85	28	41	48
54.7	20	21	N. SM	135	0.90	1.05	0.95	18	30	31
49.7	25	28	TILL	140	1.10	0.95	0.95	22	36	34
44.7	30	34	TILL	140	1.29	0.88	1.00	25	43	37
39.7	35	100	TILL	140	1.49	0.82	1.00	58	100	82
34.7	40	100	TILL	140	1.68	0.77	1.00	58	100	77
29.7	45	100	TILL	140	1.87	0.73	1.00	58	100	73
24.7	50	100	TILL	140	2.07	0.70	1.00	58	100	70

Boring ID:	GB-LF2-02	
Ground Surface Elevation:	77.8	ft
Water Elevation:	69.8	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
76.8	1	13	FILL	125	0.06	1.70	0.75	13	17	29
74.8	3	22	FILL	125	0.19	1.70	0.75	22	29	49
72.8	5	12	N. SM	135	0.32	1.70	0.75	12	16	27
70.8	7	25	N. SM	135	0.45	1.49	0.75	25	33	48
68.8	9	19	N. SM	135	0.53	1.38	0.75	17	22	31
66.8	11	29	N. SM	135	0.60	1.29	0.75	22	29	37
64.8	13	78	N. SM	135	0.67	1.22	0.85	47	69	84
62.8	15	68	N. SM	135	0.74	1.16	0.85	42	61	71
57.8	20	94	TILL	140	0.93	1.04	0.95	55	90	94
52.8	25	100	TILL	140	1.12	0.94	0.95	58	95	90
47.8	30	100	TILL	140	1.31	0.87	1.00	58	100	87
42.8	35	100	TILL	140	1.51	0.81	1.00	58	100	81
37.8	40	100	TILL	140	1.70	0.77	1.00	58	100	77
32.8	45	100	TILL	140	1.90	0.73	1.00	58	100	73
27.8	50	100	TILL	140	2.09	0.69	1.00	58	100	69

Boring ID:	GB-LF2-03	
Ground Surface Elevation:	70.6	ft
Water Elevation:	66.6	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
69.6	1	8	FILL	125	0.06	1.70	0.75	8	10	18
67.6	3	6	FILL	125	0.19	1.70	0.75	6	8	13
65.6	5	2	FILL	126	0.26	1.70	0.75	2	3	4
63.6	7	18	FILL	127	0.33	1.70	0.75	17	22	37
61.6	9	24	N. SM	134	0.40	1.58	0.75	20	25	40
59.6	11	11	N. SM	135	0.47	1.45	0.75	11	14	21
57.6	13	17	N. SM	135	0.55	1.35	0.85	16	24	32
55.6	15	9	N. SM	135	0.62	1.27	0.85	9	13	17
53.6	17	10	N. SM	135	0.69	1.20	0.85	10	15	18
49.6	21	7	N. SM	135	0.84	1.09	0.95	7	12	13
47.6	23	100	TILL	140	0.91	1.05	0.95	58	95	100

Boring ID:	GB-LF2-04	
Ground Surface Elevation:	78.9	ft
Water Elevation:	70.9	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
77.9	1	17	FILL	125	0.06	1.70	0.75	17	22	38
75.9	3	14	FILL	125	0.19	1.70	0.75	14	18	32
73.9	5	8	N. SM	135	0.32	1.70	0.75	8	10	18
71.9	7	14	N. SM	135	0.45	1.49	0.75	14	18	28
69.9	9	24	N. SM	135	0.53	1.38	0.75	20	25	36
67.9	11	26	N. SM	135	0.60	1.29	0.75	21	27	36
65.9	13	18	N. SM	135	0.67	1.22	0.85	17	24	31
63.9	15	21	N. SM	135	0.74	1.16	0.85	18	27	32
61.9	17	34	N. SM	135	0.82	1.11	0.85	25	36	42
58.9	20	64	TILL	140	0.93	1.04	0.95	40	65	70
53.9	25	76	TILL	140	1.12	0.94	0.95	46	75	73
48.9	30	100	TILL	140	1.32	0.87	1.00	58	100	90
43.9	35	100	TILL	140	1.51	0.81	1.00	58	100	84
38.9	40	81	TILL	140	1.71	0.77	1.00	48	84	66
33.9	45	94	TILL	140	1.90	0.73	1.00	55	95	71
28.9	50	76	TILL	140	2.09	0.69	1.00	46	79	57

Boring ID:	GB-LF2-05	
Ground Surface Elevation:	76.8	ft
Water Elevation:	68.8	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
75.8	1	28	FILL	125	0.06	1.70	0.75	28	37	62
73.8	3	9	N. SM	135	0.19	1.70	0.75	9	12	21
71.8	5	17	N. SM	135	0.33	1.70	0.75	17	22	39
69.8	7	34	N. SM	135	0.46	1.47	0.75	34	44	67
67.8	9	30	N. SM	135	0.54	1.37	0.75	23	29	42
65.8	11	31	N. SM	135	0.61	1.28	0.75	23	30	40
63.8	13	41	N. SM	135	0.68	1.21	0.85	28	41	52
61.8	15	69	N. SM	135	0.75	1.15	0.85	42	62	74
59.8	17	42	N. SM	135	0.83	1.10	0.85	29	42	48
57.8	19	100	N. SM	135	0.90	1.06	0.85	58	85	93
53.8	23	43	N. SM	135	1.04	0.98	0.95	29	48	49
51.8	25	65	N. SM	135	1.12	0.95	0.95	40	66	65
49.8	27	69	N. SM	135	1.19	0.92	0.95	42	69	66
47.8	29	100	N. SM	135	1.26	0.89	0.95	58	95	88
41.8	35	100	TILL	140	1.49	0.82	1.00	58	100	85
36.8	40	100	TILL	140	1.69	0.77	1.00	58	100	80
31.8	45	88	TILL	140	1.88	0.73	1.00	52	90	68
28.8	48	100	TILL	140	2.00	0.71	1.00	58	100	73

Boring ID:	GB-LF2-06	
Ground Surface Elevation:	72.9	ft
Water Elevation:	64.9	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

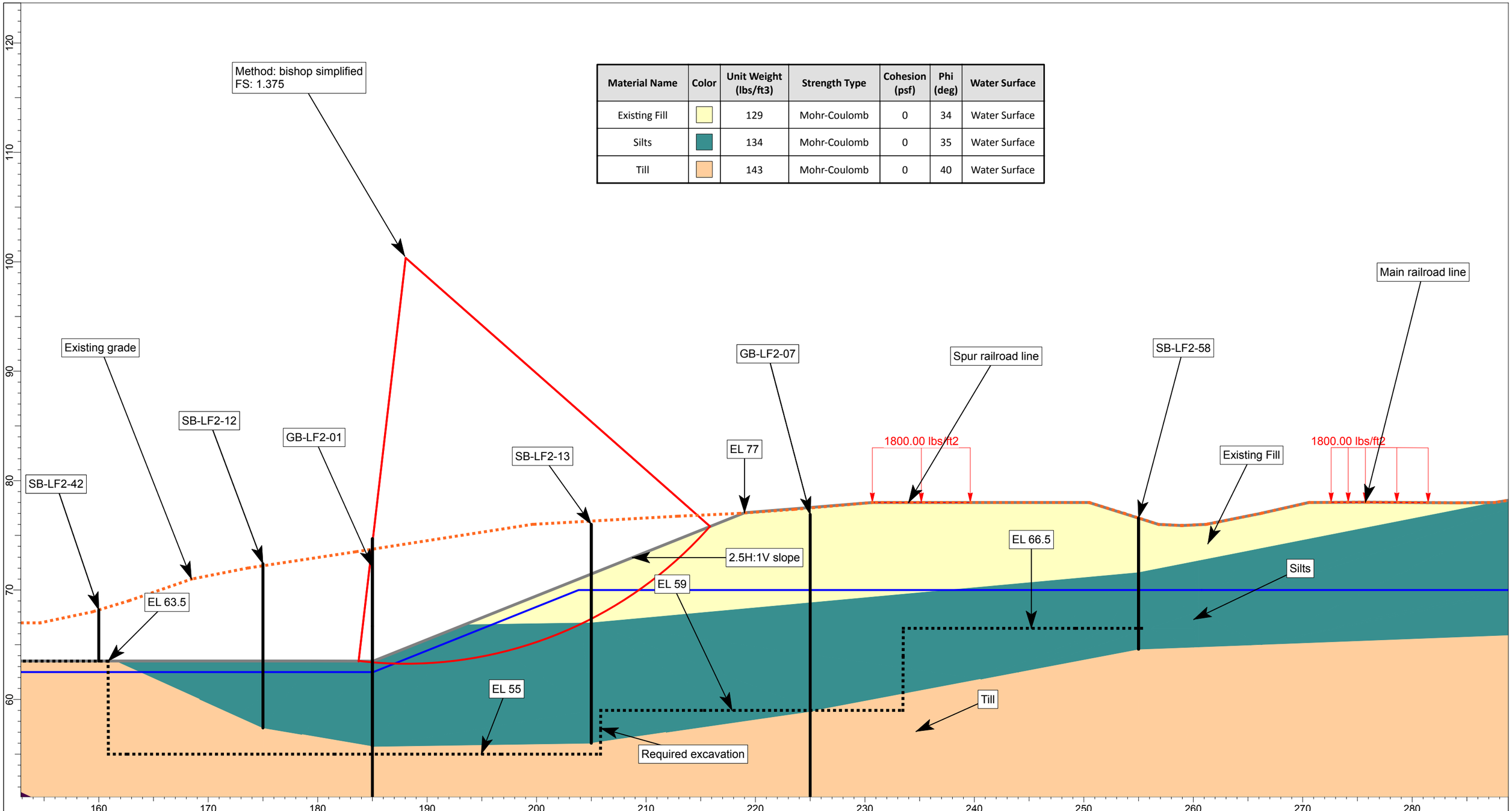
Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
71.9	1	4	FILL	125	0.06	1.70	0.75	4	5	9
69.9	3	9	N. SM	135	0.19	1.70	0.75	9	12	21
67.9	5	4	N. SM	135	0.33	1.70	0.75	4	5	9
65.9	7	14	N. SM	135	0.46	1.47	0.75	14	18	28
63.9	9	37	N. SM	135	0.54	1.37	0.75	37	48	68
61.9	11	46	N. SM	135	0.61	1.28	0.75	31	40	53
59.9	13	37	N. SM	135	0.68	1.21	0.85	26	38	48
57.9	15	42	N. SM	135	0.75	1.15	0.85	29	42	50
55.9	17	62	N. SM	135	0.83	1.10	0.85	62	92	104
53.9	19	7	N. SM	135	0.90	1.06	0.85	7	10	11
51.9	21	13	N. SM	135	0.97	1.01	0.95	13	21	23
49.9	23	8	N. SM	135	1.04	0.98	0.95	8	13	13
47.9	25	10	N. SM	135	1.12	0.95	0.95	10	17	16
45.9	27	2	N. SM	135	1.19	0.92	0.95	2	3	3
43.9	29	12	N. SM	135	1.26	0.89	0.95	12	20	18
37.9	35	32	TILL	140	1.48	0.82	1.00	24	41	35
32.9	40	41	TILL	140	1.68	0.77	1.00	28	49	39
27.9	45	25	TILL	140	1.87	0.73	1.00	20	35	26
22.9	50	18	TILL	140	2.06	0.70	1.00	17	29	21

Boring ID:	GB-LF2-07	
Ground Surface Elevation:	76.9	ft
Water Elevation:	68.9	ft
Borehole Diameter:	4	in.
C_B:	1	
C_E:	1.45	
C_S:	1.2	

Elevation	Depth	N_{Field}	Statum	γ	$\sigma_{v'}$	C_N	C_R	N'_{Field}	N_{60}	$(N_1)_{60}$
(ft)	(ft)	(bpf)		(pcf)	(tsf)			(bpf)	(bpf)	(bpf)
75.9	1	8	FILL	125	0.06	1.70	0.75	8	10	18
73.9	3	36	FILL	125	0.19	1.70	0.75	36	63	83
71.9	5	24	FILL	125	0.31	1.70	0.75	24	42	55
69.9	7	1	FILL	125	0.44	1.51	0.75	1	2	2
67.9	9	19	N. SM	135	0.51	1.41	0.75	17	30	32
65.9	11	15	N. SM	135	0.58	1.32	0.75	15	26	27
63.9	13	21	N. SM	135	0.65	1.24	0.85	18	31	34
61.9	15	15	N. SM	135	0.72	1.18	0.85	15	26	27
59.9	17	43	N. SM	135	0.80	1.12	0.85	29	50	50
53.9	23	61	TILL	140	1.03	0.99	0.95	38	66	64
49.9	27	58	TILL	140	1.18	0.92	0.95	37	64	57
41.9	35	88	TILL	140	1.49	0.82	1.00	52	90	76
36.9	40	88	TILL	140	1.69	0.77	1.00	52	90	71
31.9	45	84	TILL	140	1.88	0.73	1.00	50	86	65
27.9	49	98	TILL	140	2.03	0.70	1.00	57	98	71

ATTACHMENT B
Stability Analyses and Results - Output Files

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface



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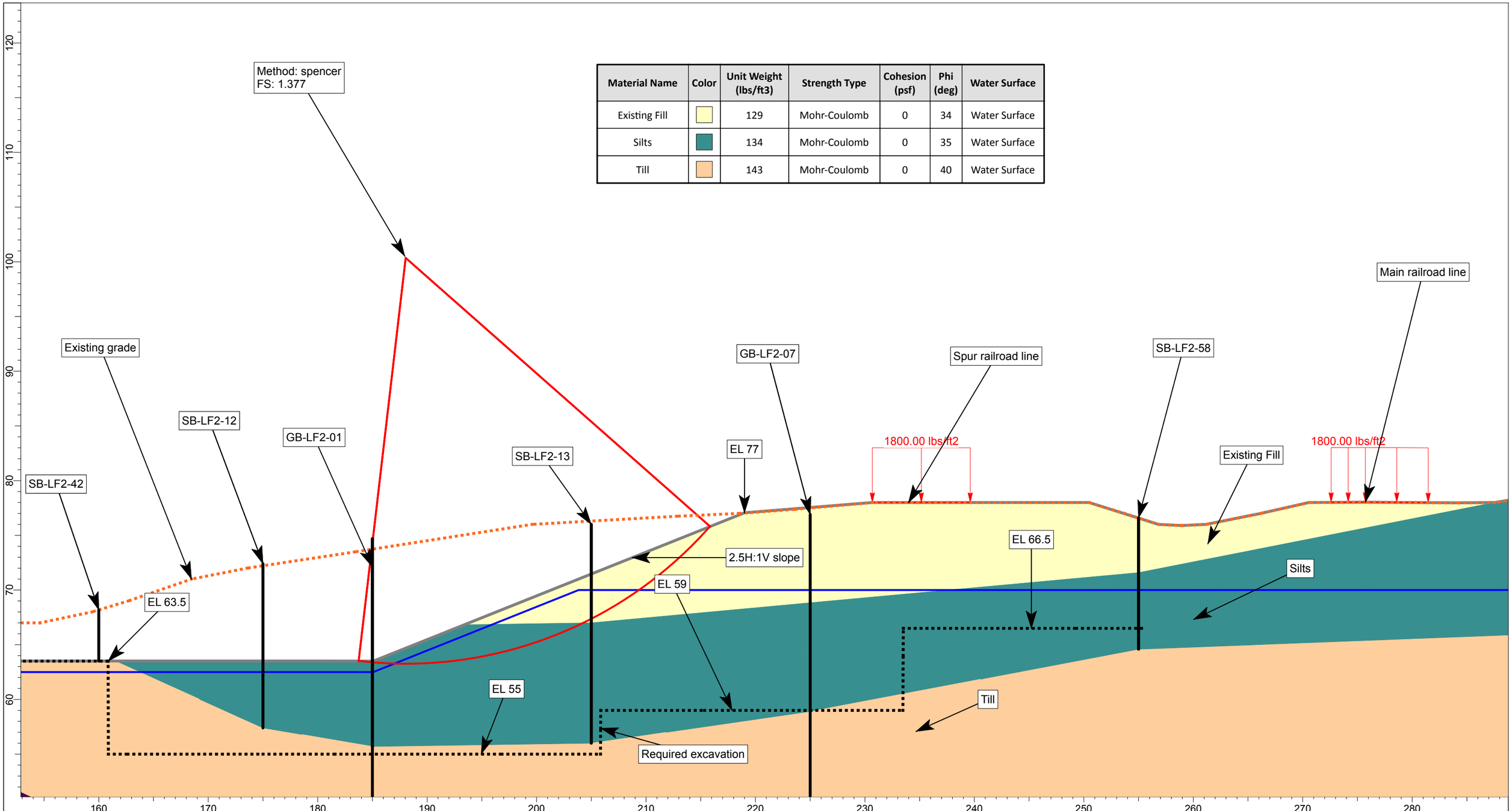
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 1-Phase 1 Excavation-Rotational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100
File Name	BR0292-11-B'-Phase1-D-R.slim		

Figure B-1

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface



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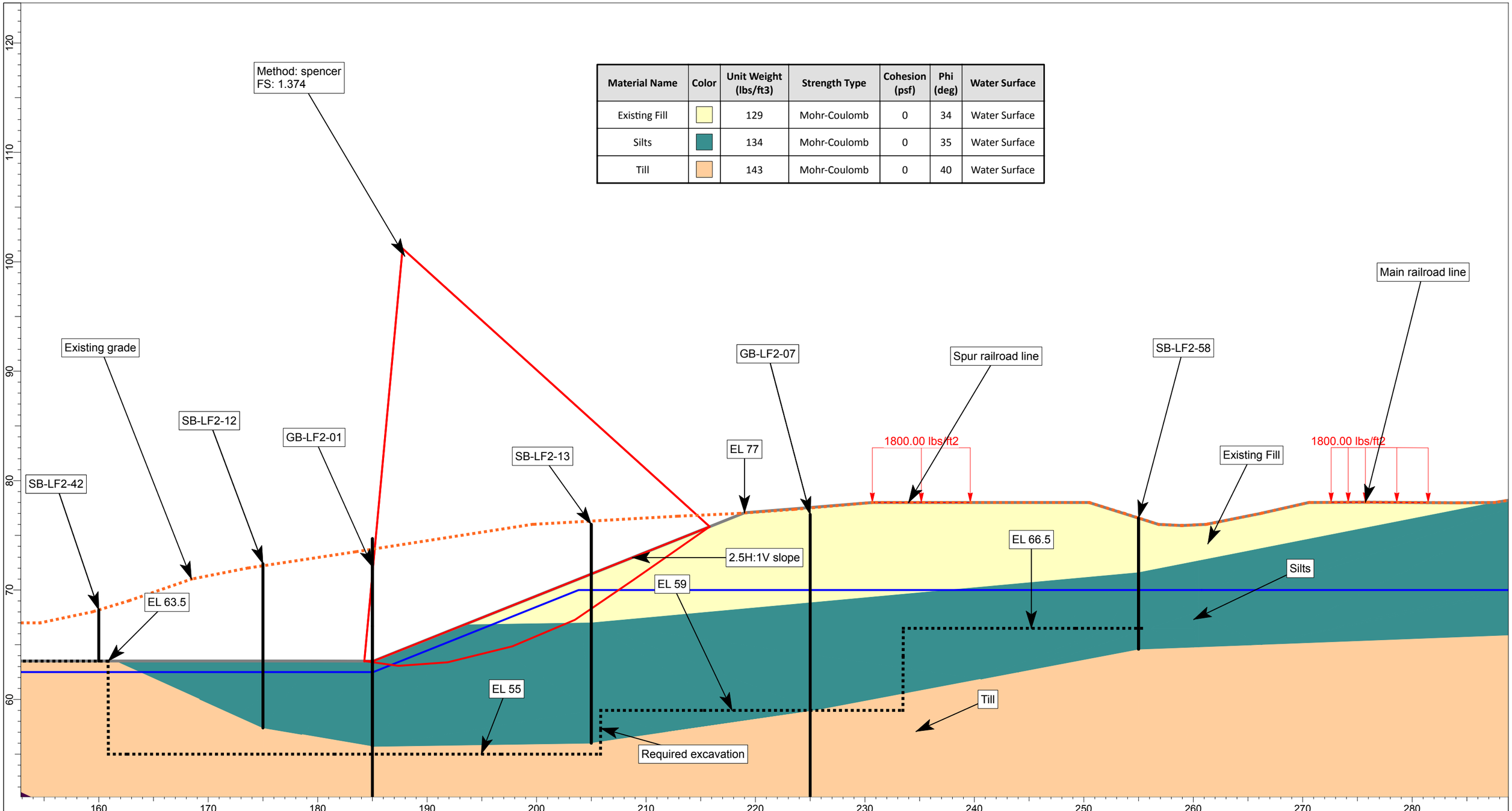
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 1-Phase 1 Excavation-Rotational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100
File Name	BR0292-11-B'-Phase1-D-R.slim		

Figure B-2

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface



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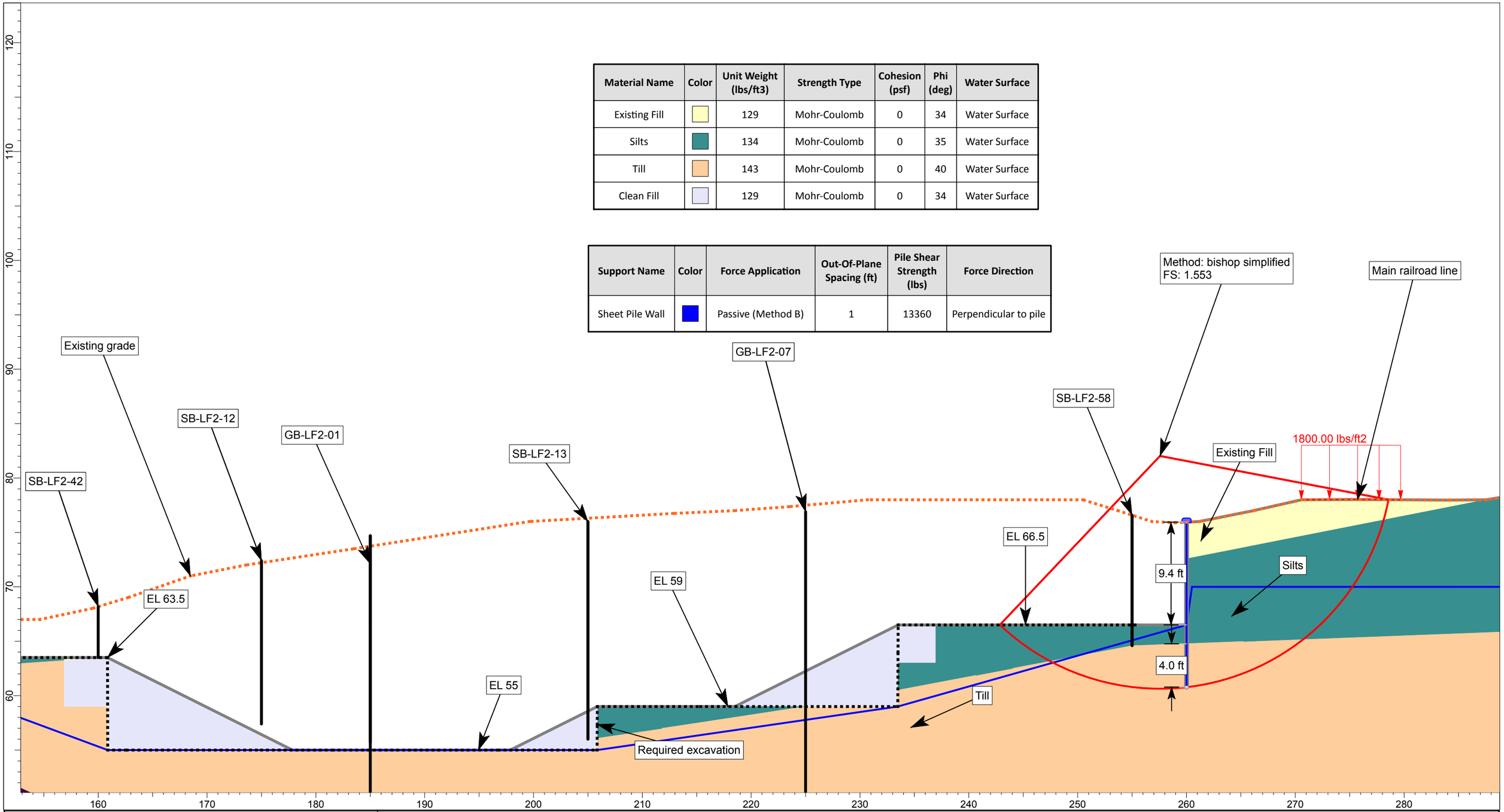
SLIDEINTERPRET 6.037

Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Scenario 1-Phase 1 Excavation-Translational
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	BR0292-11-B'-Phase1-D-TR.slim

Figure B-3

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Perpendicular to pile



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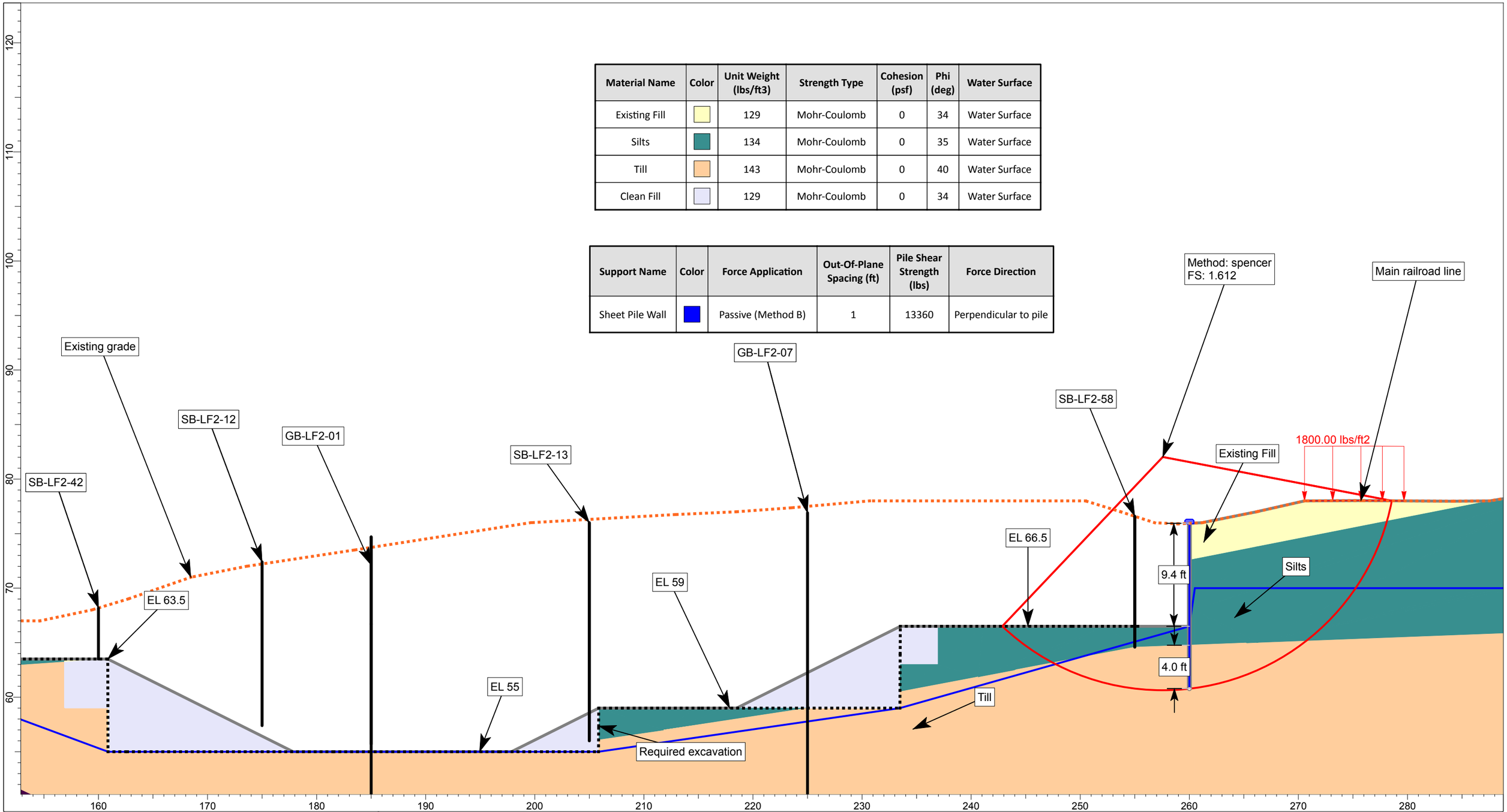
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Rotational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date 1 December 2015	Scale 1:100	File Name	BR0292-11-B-Phase2-Wall-D-R.slim

Figure B-4

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Perpendicular to pile



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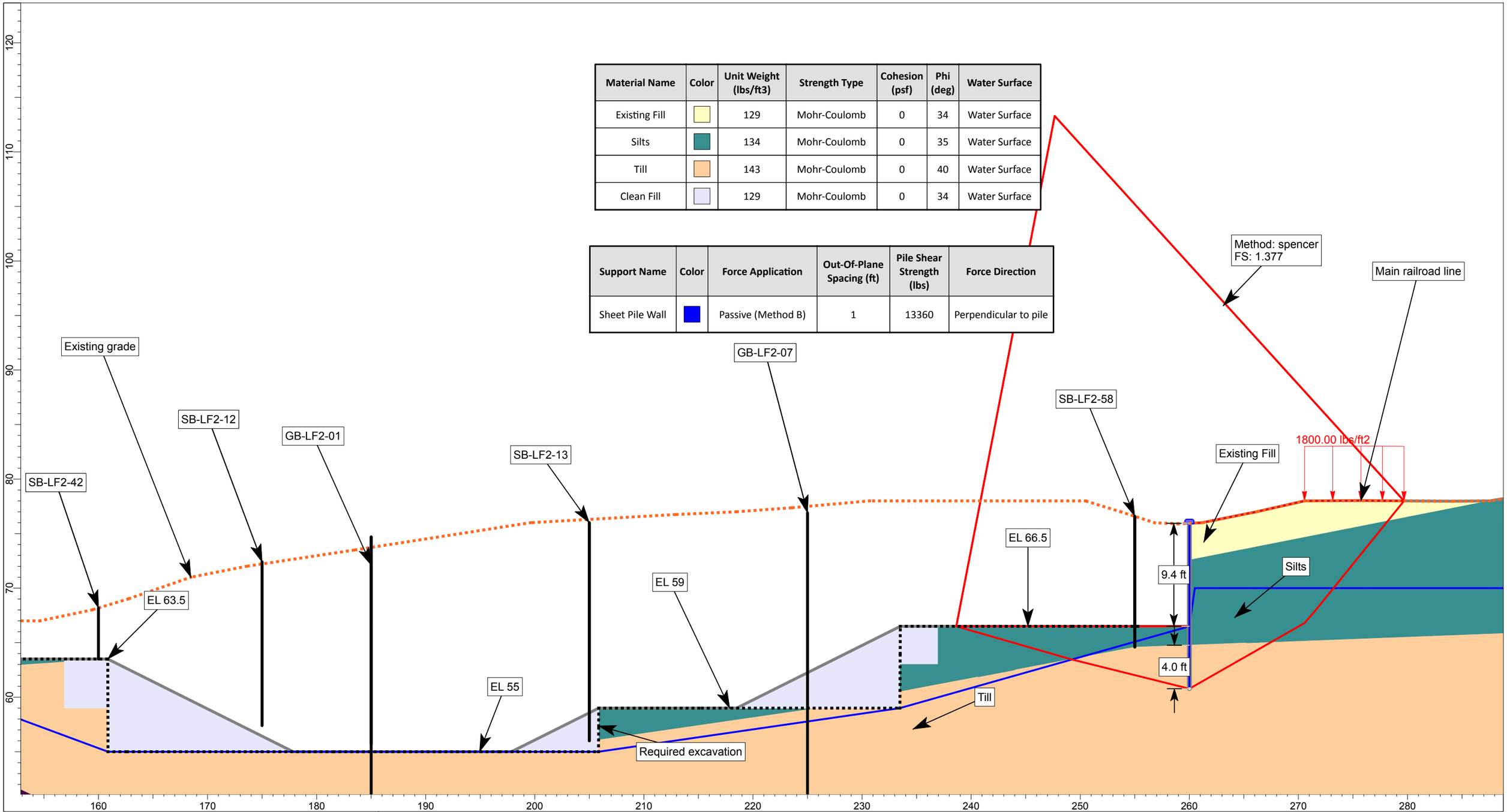
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Rotational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100
File Name	BR0292-11-B-Phase2-Wall-D-R.slim		

Figure B-5

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Perpendicular to pile



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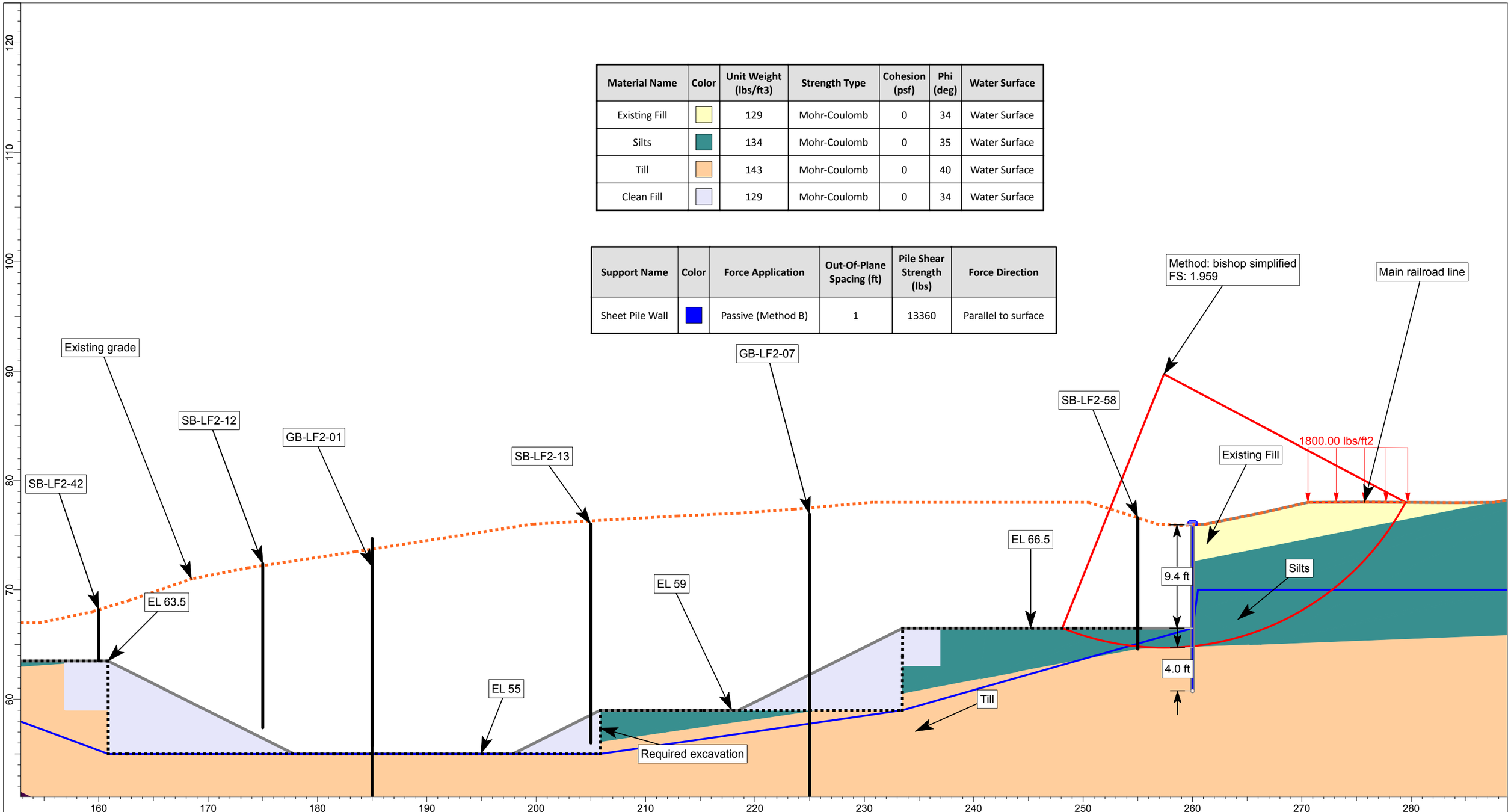
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Translational
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	BR0292-11-B-Phase2-Wall-D-TR.slim

Figure B-6

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Parallel to surface



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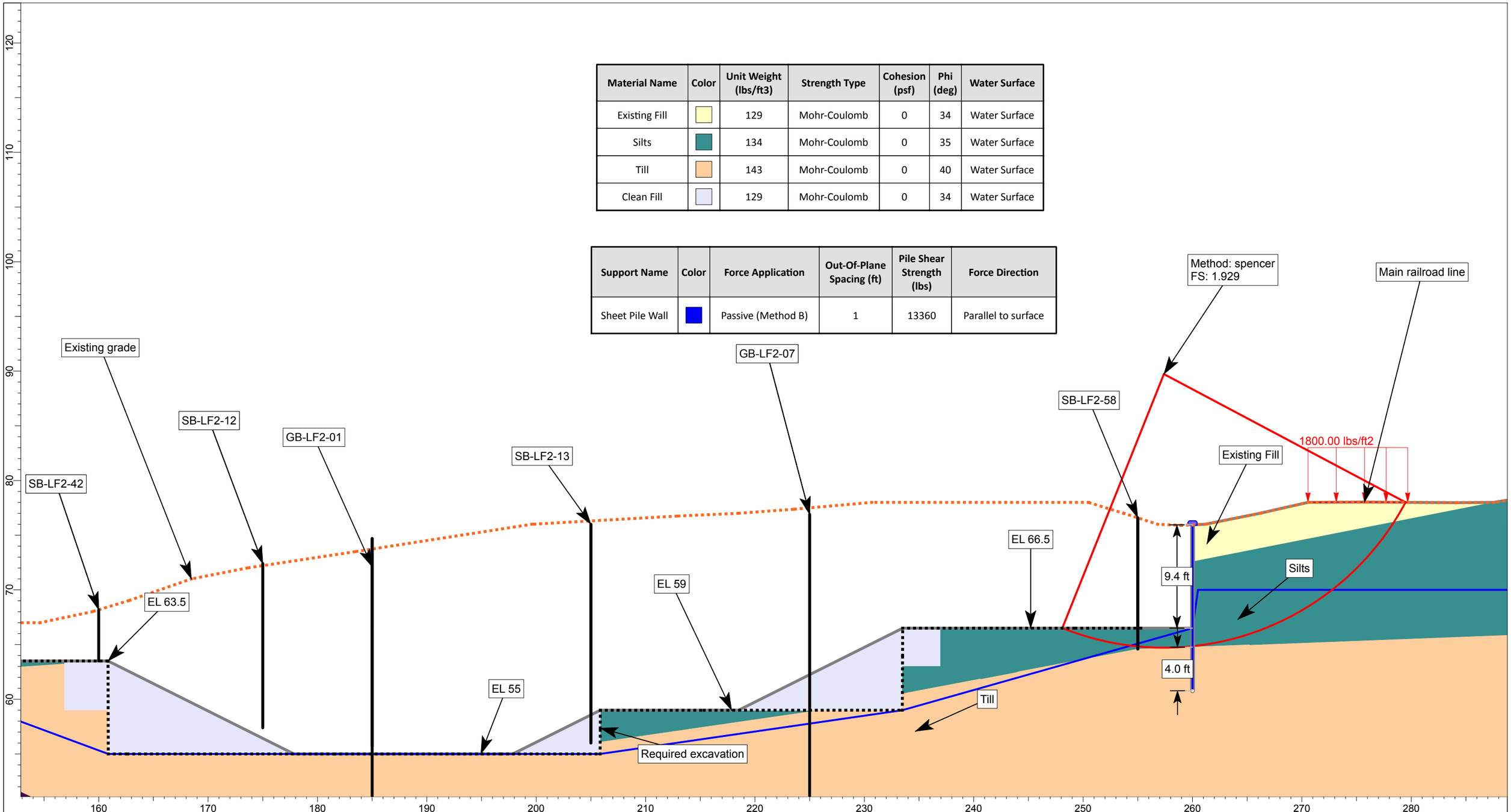
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Rotational-Wall Pullout
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	BR0292-11-B-Phase2-Wall-D-R-pull-a.slim

Figure B-7

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Parallel to surface



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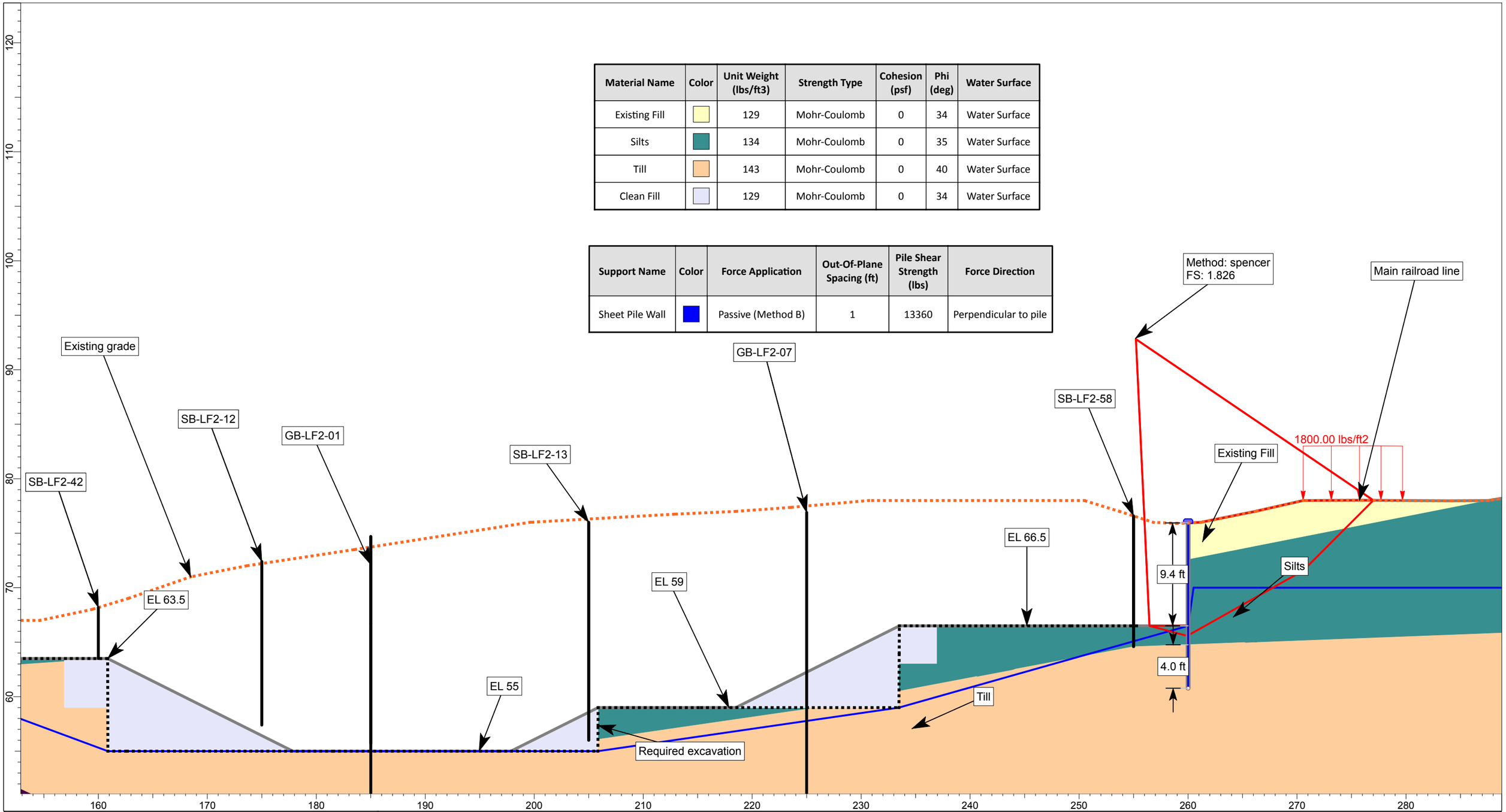
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Rotational-Wall Pullout
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	BR0292-11-B-Phase2-Wall-D-R-pull-a.slim

Figure B-8

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface

Support Name	Color	Force Application	Out-Of-Plane Spacing (ft)	Pile Shear Strength (lbs)	Force Direction
Sheet Pile Wall		Passive (Method B)	1	13360	Perpendicular to pile



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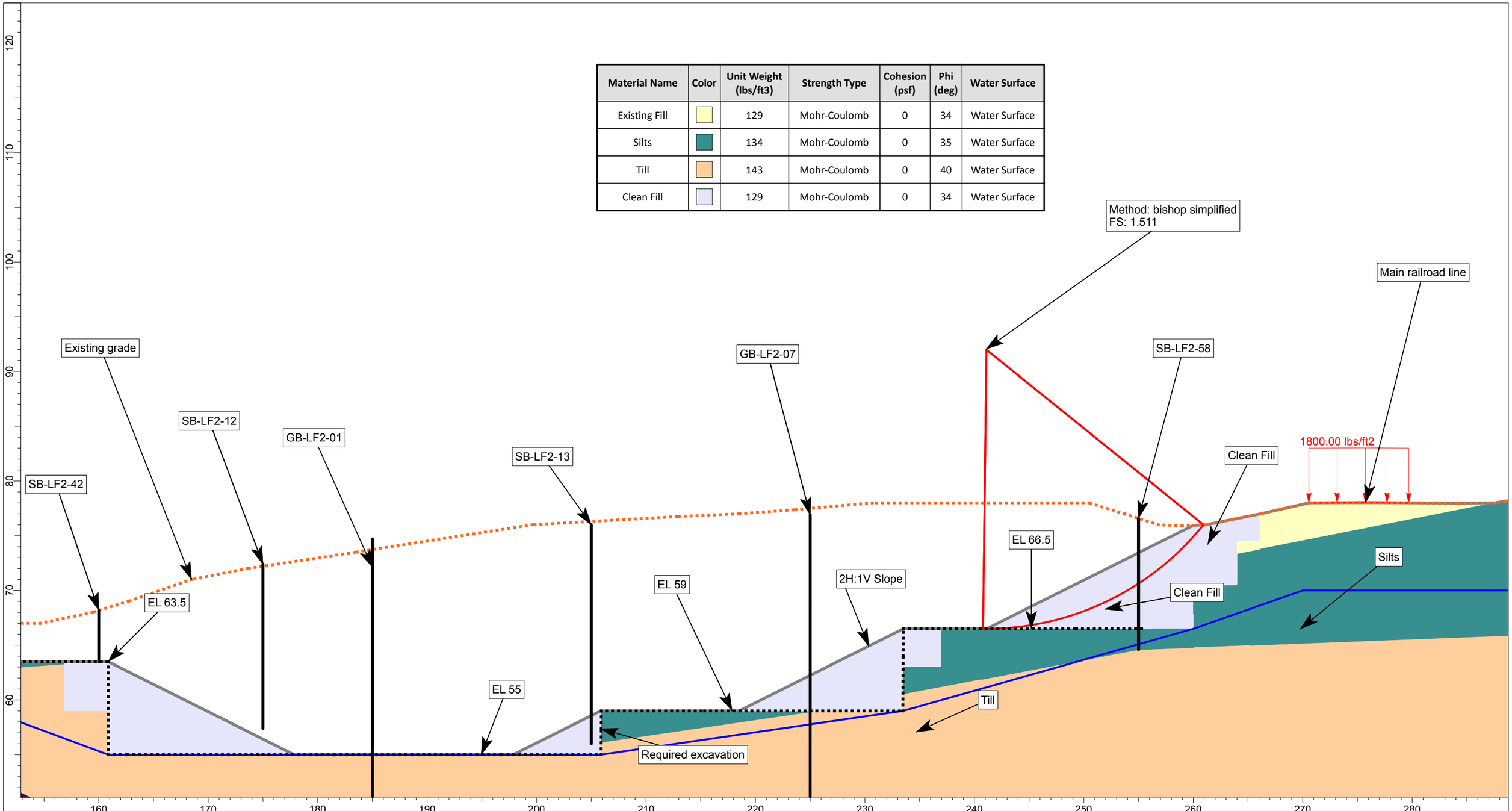
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2
Analysis Description	Cross Section B-B'-Scenario 2a-Phase 2 Wall Excavation-Translational-Wall Pullout
Analysis By	PA
Client	Mallinckrodt US LLC
Date	1 December 2015
Scale	1:100
File Name	BR0292-11-B-Phase2-Wall-D-TR-pull.slim

Figure B-9

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface



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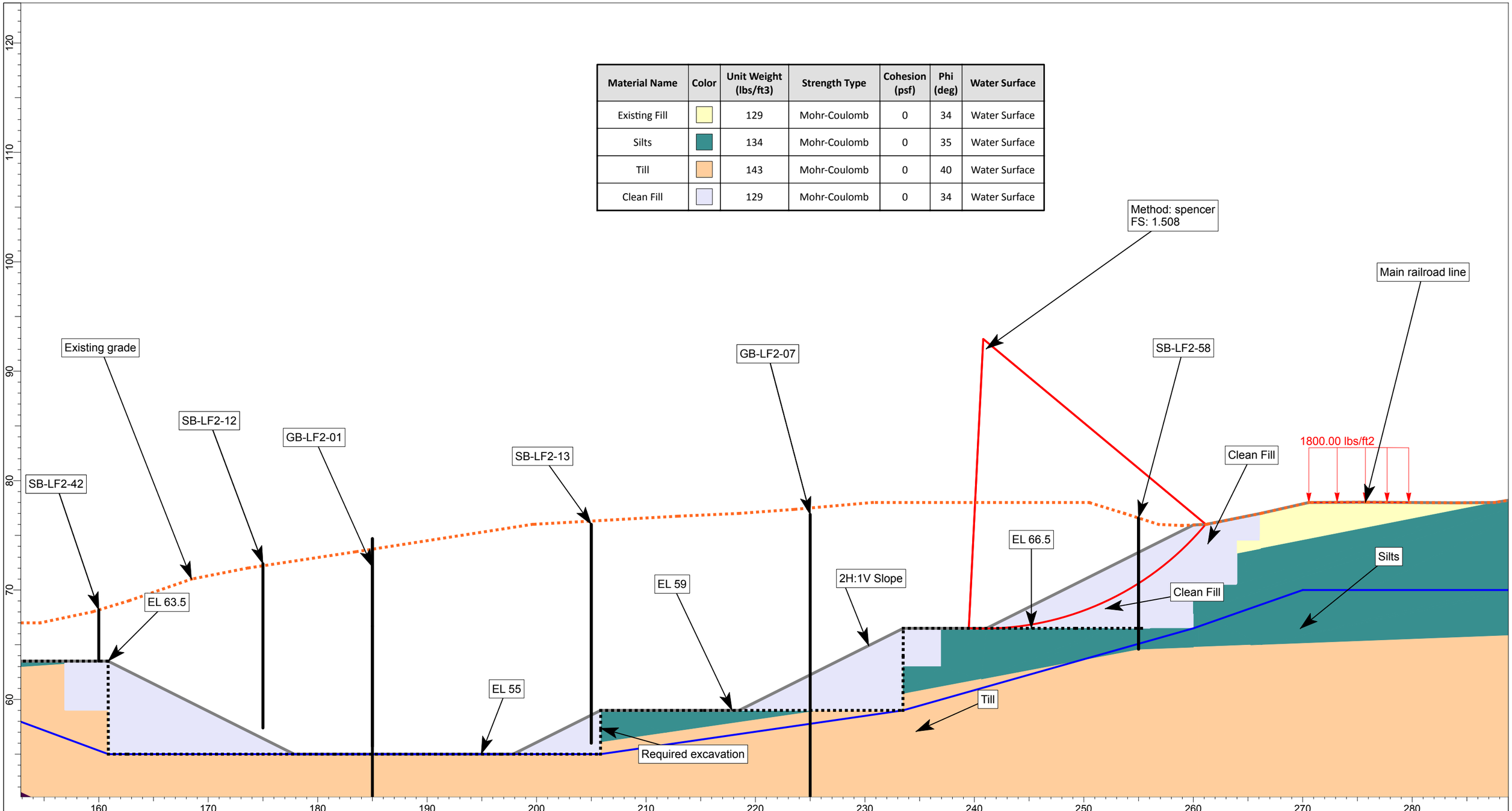
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 2b-Phase 2 Benching Excavation-Translational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100
File Name	BR0292-11-B-Phase2-Benching-D-R.slim		

Figure B-10

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface



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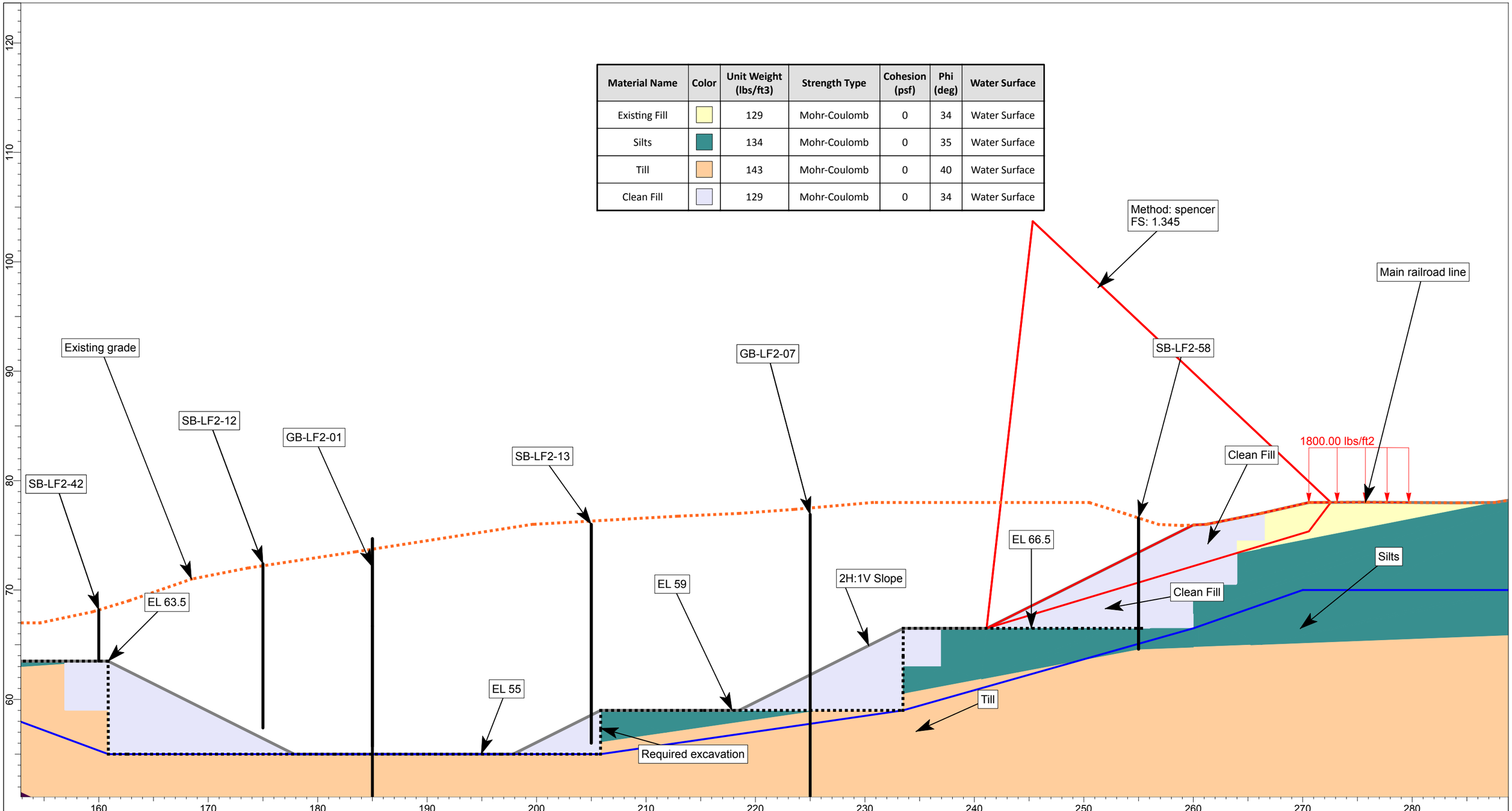
Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 2b-Phase 2 Benching Excavation-Translational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100	File Name	BR0292-11-B-Phase2-Benching-D-R.slim

Figure B-11

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface
Existing Fill		129	Mohr-Coulomb	0	34	Water Surface
Silts		134	Mohr-Coulomb	0	35	Water Surface
Till		143	Mohr-Coulomb	0	40	Water Surface
Clean Fill		129	Mohr-Coulomb	0	34	Water Surface



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Project	ORRINGTON REMEDIATION SITE-LANDFILL 2		
Analysis Description	Cross Section B-B'-Scenario 2b-Phase 2 Benching Excavation-Translational		
Analysis By	PA	Client	Mallinckrodt US LLC
Date	1 December 2015	Scale	1:100
File Name	BR0292-11-B-Phase2-Benching-D-TR.slim		

Figure B-12

APPENDIX I-4

Stormwater Management Calculation

DRAFT

Written by:	P. Tu	Date:	11/19/2015	Reviewed by:	R. Bourdeau	Date:	11/30/2015

Client:	Mallinckrodt	Project:	Orrington Remediation Site	Project/ Proposal No.:	BR0292	Task No.:	11/02

Landfill 2 Stormwater Management Plan Calculation Package

PURPOSE

The purpose of this calculation package is to present the methodology, calculations, assumptions, and results of the hydrologic analyses associated with Landfill 2 (LF2) Stormwater Management Plan (SMP) at the Orrington Remediation Site in Orrington, Maine (Site). The remedial design for Landfill 2 is presented in the document titled "Landfill 2 Corrective Measures Implementation (CMI) Plan, Orrington Remediation Site, Orrington, Maine" prepared by Geosyntec Consultants, Inc., and dated January 2016, with specific features relevant to the stormwater aspects of the remediation shown on the drawings included as Appendix F to the Landfill 2 CMI Plan (herein referred to as the Landfill 2 CMI Drawings).

METHODOLOGY

The following section discusses the methodology and assumptions for the calculations provided in this calculation package.

- **Land Grading and Slope Protection.** The Maine Erosion and Sediment Control (ESC) Manual (Maine DEP 2015) has the following requirements for permanent soil stabilization measured of land grading and slope protection:
  - Cut and fill slopes that are to be stabilized with grass and mowed shall not be steeper than 3:1 (4:1 is preferred); and
  - Surface water shall be diverted from the face of all cut and/or fill slopes by the use of diversions, ditches, and swales or conveyed downslope by the use of a designed structure, except where:

    1) The face of the slope is or shall be stabilized and the face of all graded slopes shall be protected from surface runoff until they are stabilized.

    2) The face of the slope shall not be subject to any concentrated flows of surface water such as from natural drainage ways, graded swales, downspouts, etc.

    3) Vegetation, gravel, riprap or other stabilization method must protect the face of the slope.

- **Runoff Peak Flow Rate**. The Maine Stormwater Rules (06-096 CMR ch. 500(4) (E)) stipulated that the runoff peak flow rates for 2-year, 10-year, and 25-year storms of the Post-Remediation condition must be equal or lower than those of the Pre-Remediation condition.

  The peak flow rates were estimated at the Compliance Point (shown in **Figure 1**), which is defined as a common point to compare Pre- and Post-Remediation runoff flow rates and is neither a point that defines regulatory water quality compliance nor is used for sampling. Runoff from the

excavation extent of Landfill 2 remediation is assumed to be concentrated to the Compliance Point, which represents the worst scenario in terms of buildup of runoff peak flow rate in the Southerly Stream.

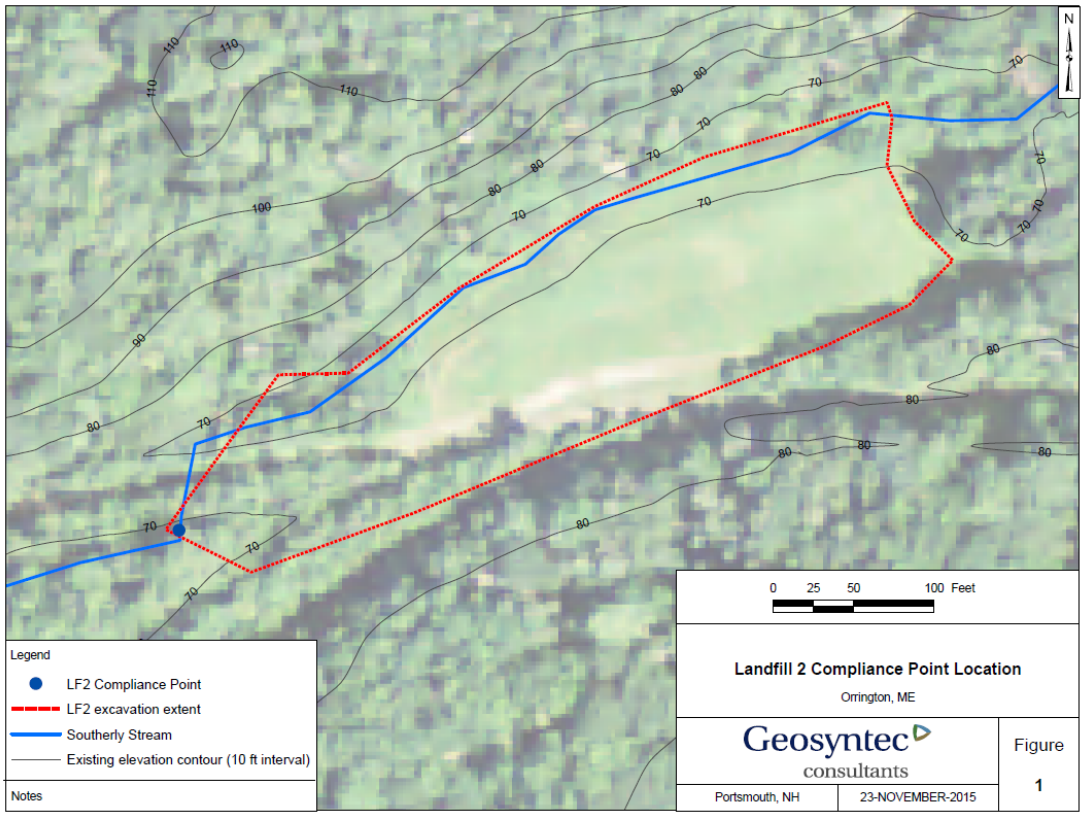

Figure 1. Location of Compliance Point

- **Hydrologic Model.** Hydrologic analyses (Pre- verses Post-remediation) were conducted using the SCS TR-55 (USDA, 1986) hydrograph methodology as coded within a commercially available computer program HydroCAD® version 10.00 (HydroCAD, 2012).
- **SCS Runoff.** The SCS Runoff Curve Number (CN) method is based on the following equation (USDA, 1986):

$$Q = \frac{(P - I_a)^2}{(P - I_a) + S}$$

$$S = \frac{1000}{CN} - 10$$

where Q = runoff (in), P = rainfall (in), S= potential maximum retention after runoff begins (in) which is calculated by the second equation above, I_a = initial abstraction (in) which is approximated as 0.2S, CN = curve number.

- **Time of concentration (Tc).** Time of concentration calculations were performed within the computer model using the SCS TR-55 methodology. Computations for travel time for sheet flow were performed using the equation for Manning's kinematic solution (USDA, 1986):

$$T_t = \frac{0.007(nL)^{0.8}}{(P)^{0.5} S^{0.4}}$$

where T_t = travel time (hr), n = Manning's roughness coefficient, L = flow length (ft), P = 2-year, 24-hour rainfall depth (inch; 2.7 inches for South Penobscot County), and S = land slope (ft/ft).

Travel times for shallow concentrated flow were estimated using the methodology presented in TR-55 (USDA, 1986):

$$T_t = \frac{L}{3600V}$$

where T_t = travel time (hours), L = flow length (ft), and V = average velocity (fps).

Travel times for the drainage channel flow were estimated using the following equations (USDA, 1986):

$$T_t = \frac{L}{3600V}; \qquad V = \frac{1.486}{n} r^{2/3} s^{1/2}; \qquad r = \frac{a}{p_w}$$

where T_t = travel time (hours); L = flow length (ft); V = average velocity (fps); n = Manning's roughness coefficient; r = hydraulic radius (ft); s = channel slope (ft/ft); a = cross-sectional flow area (ft^2); and p_w= wetted perimeter (ft).

- **Rainfall Distribution.** Hydrologic analyses were conducted using SCS Type III Rainfall Distribution (USDA 1986).

- **Design Storm.** The design storms used in this calculation package are the 2-year, 5-year, 10-year, and 25-year, 24-hour events for compliance with the flooding standard of the Maine Stormwater Rules (06-096 CMR ch. 500(4) (E).).

The rainfall depths for the design storm events for Orrington, ME (68.826 degrees West, 44.731 degrees North) in Penobscot County, Maine, are provided in **Table 1.** Design storms rainfall depth Design storm rainfall depths were obtained from the Northeast Regional Climate Center (NRCC) (NRCC 2015) through 2008.

Table 1. Design storms rainfall depth

Design Storm Frequency	Precipitation Depth (inches)
2-year	2.76
10-year	4.06
25-year	5.06

- **Hydrologic Soil Group (HSG).** The soils map (**Figure 2**) is reproduced from the Natural Resource Conservation Service (NRCS) Web Soil Survey report (NRCS 2015). The Web Soil Survey report is presented as **Attachment A**. For soils that traverse more than one HSG, the HSG is conservatively chosen as the one with the lowest infiltration capacity. HSGs C and D are present at and around Landfill 2. For the Post-Remediation condition, HSG C soil is assumed to be the primary soil group used as structural fill will be imported to the Site for the Post-Remediation condition.

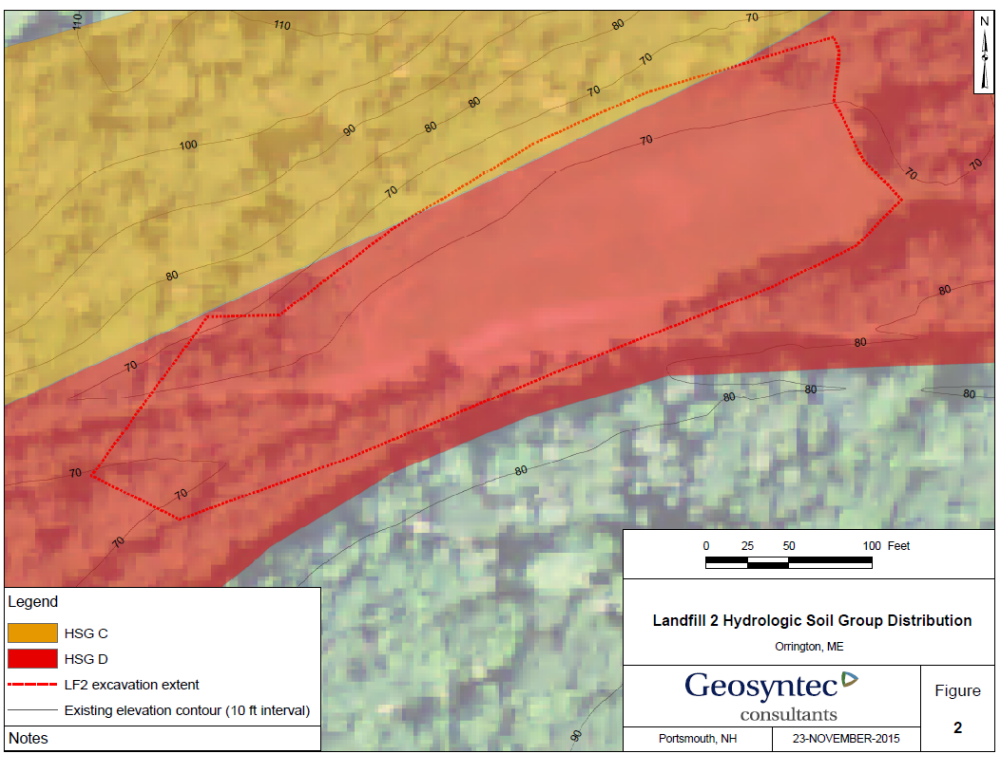

Figure 2. Soil Map for Pre-Remediation condition

- **Land Use.** Land use types for the Pre-Remediation and Post-Remediation condition are shown in **Figure 3** and **Figure 4,** respectively. The changes of land use within the LF2 excavation extent for Pre- versus Post-Remediation conditions are:
  - The straightening of the dirt road in the south of Landfill 2 (assumes no change in total road area); and
  - Woods within the excavation extent is converted to grass after remediation and regrading.

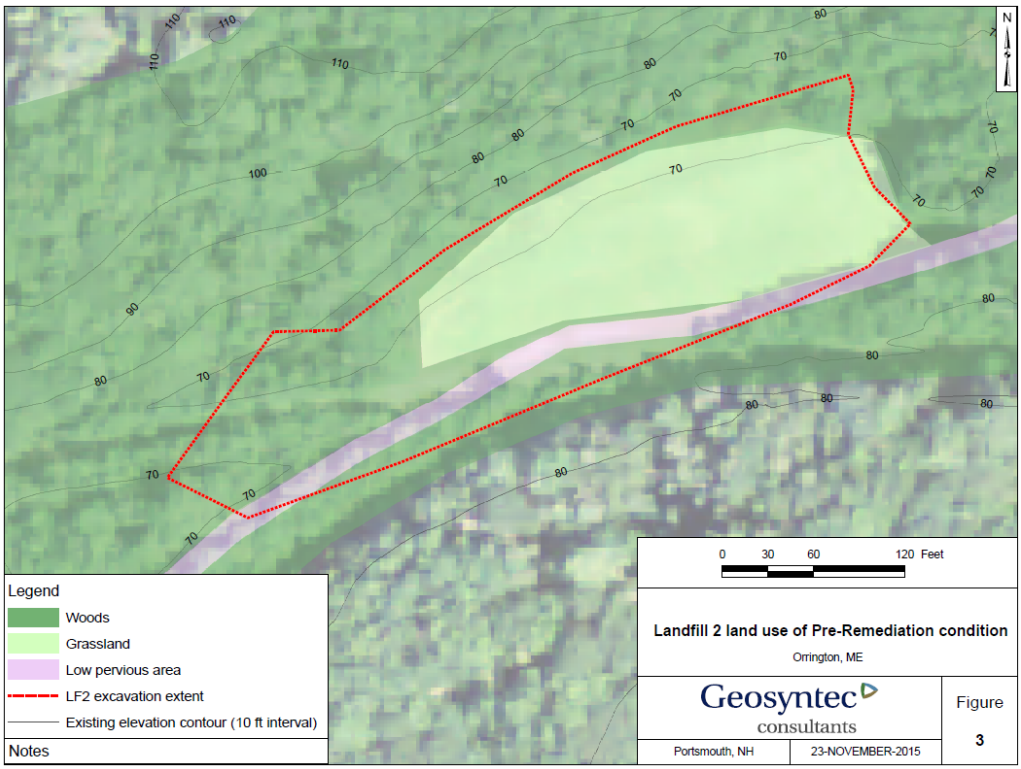

Figure 3. Landfill 2 land use distribution of Pre-Remediation condition

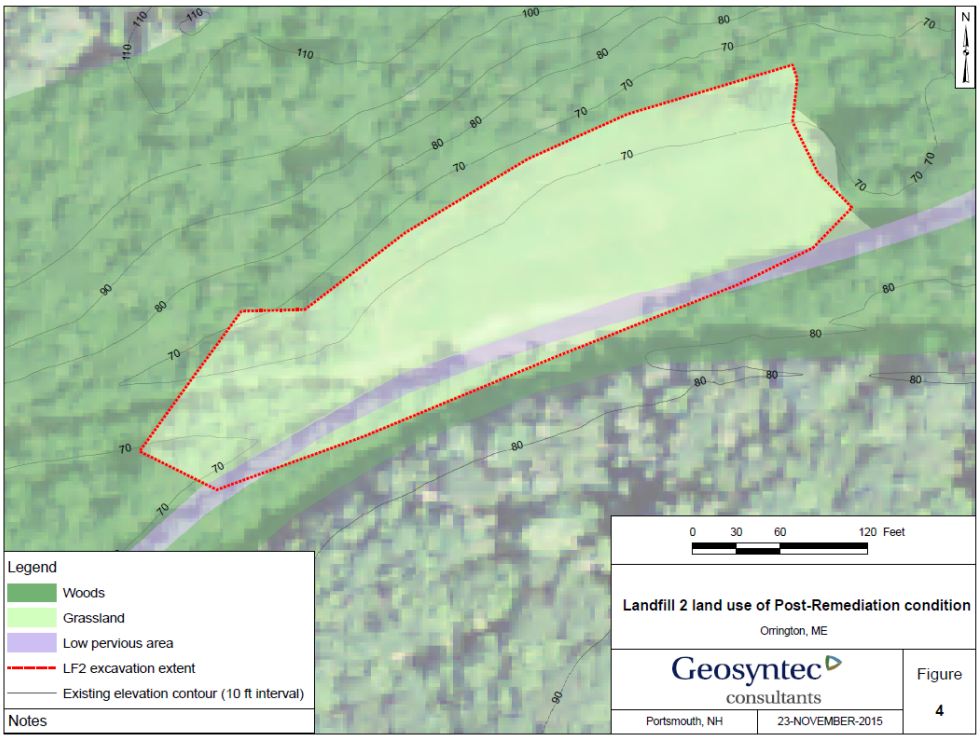

Figure 4. Landfill 2 land use distribution of Post-Remediation condition

- **Watershed Delineation**. For the Pre- and Post-Remediation conditions, it is assumed that runoff within the Landfill 2 excavation extent is concentrated to the Compliance Point presented in **Figure 1** to represent the worst case in runoff peak flow rate calculation.
- **Curve Number (CN):** There are three types of land use present: woods, grassland, and low pervious (dirt road). The Curve Numbers of different types of land use in the Pre- and Post-Remediation conditions are provided in
-
-
- Table 2. Note that hydrologic conditions are conservatively assumed to be "poor" in TR-55.

Table 2. Area of land use in Pre- and Post-Remediation conditions

Land use	HSG	CN value
Woods[1]	C	82
	D	86
Grassland[2]	C	71
	D	78
Low-pervious[3]	D	89

- **Time of concentration.** The representative time-of-concentration flow path for the Pre- and Post-Remediation conditions are provided in **Figure 5** and **Figure 6**, respectively. Properties of the representative flow of Pre- and Post-Remediation conditions are presented in **Table 3**.

Table 3. Time of concentration for Pre-Remediation and Post-Remediation conditions

Pre-Remediation			
Flow Type	**Surface Condition**	**Flow Length (ft)**	**Slope**
Sheet flow	Short grass	100	0.16
Shallow concentrated	Short grass	170	0.01
Shallow concentrated	Woodland	175	0.01
Post-Remediation			
Flow Type	**Surface Condition**	**Flow Length (ft)**	**Slope**
Sheet flow	Short grass	100	0.10
Shallow concentrated	Short grass	485	0.01

[1] Values for "woods-grass combination" with poor hydrologic condition were used.
[2] Values for "meadow" with poor hydrologic condition were used to differentiate from values of low pervious area. Meadow is chosen in the model to represent all grassed area because the Site is protected from grazing, which matches the definition of meadow in TR-55.
[3] Values for "dirt road" with poor hydrologic condition were used.

Written by: **P. Tu** Date: **11/19/2015** Reviewed by: **R. Bourdeau** Date: **11/30/2015**

Client: **Mallinckrodt** Project: **Orrington Remediation Site** Project/ Proposal No.: **BR0292** Task No.: **11/02**

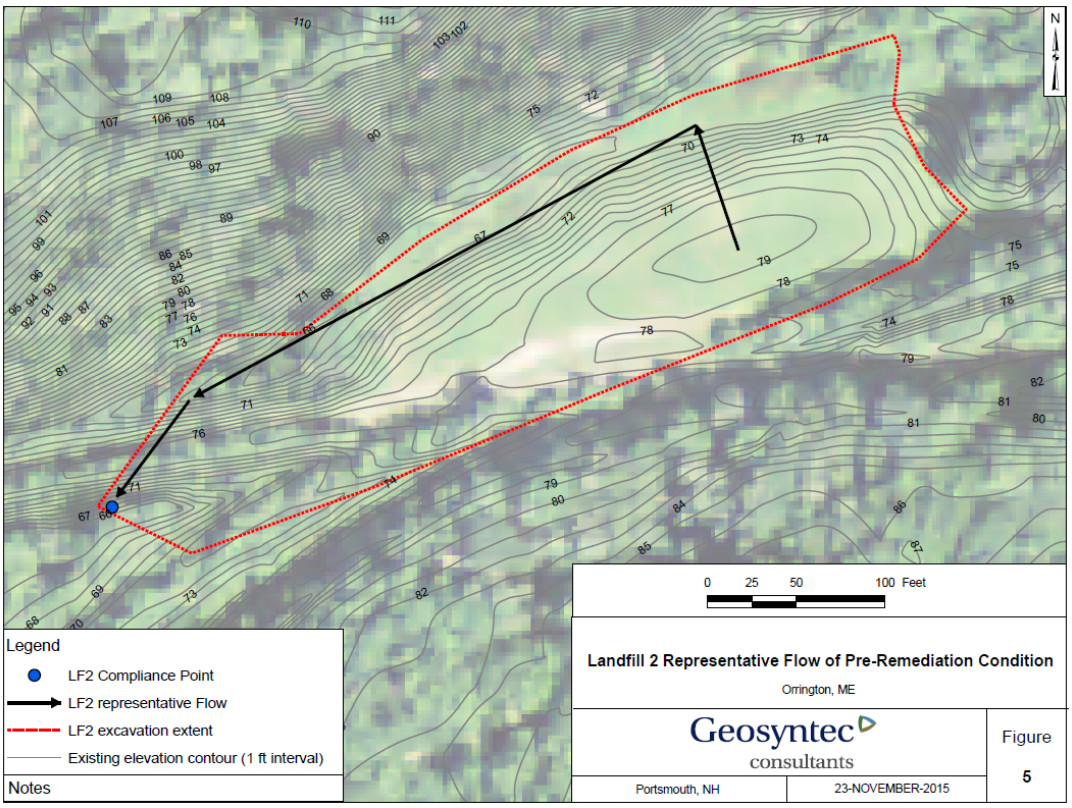

Figure 5. Representative time of concentration for Pre-Remediation condition

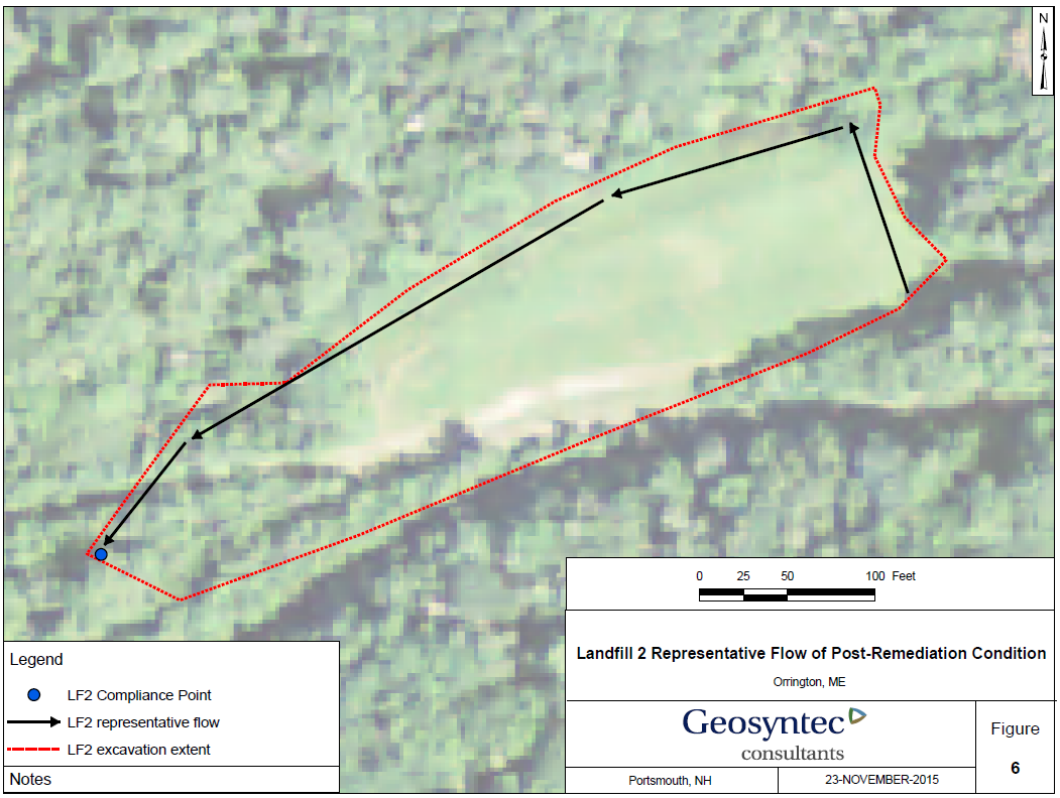

Figure 6. Representative time of concentration for Post-Remediation condition

RESULTS

According to the Landfill 2 CMI Drawings the final grading of Landfill 2 and the additional graded area will have a slope of 5% - 10%, which is within the 3:1 slope (equivalent to 33% slope); however, preferred 4:1 slope (equivalent to 25% slope) requirement stipulated by the Maine ESC manual. In addition, the face of the slope will be protected by permanent vegetation, and the flow length along the graded slope is less than 100 feet so no concentration flow is expected to occur and therefore, no water diversion structures are proposed.

The peak runoff flow rates under the 2-year, 10-year, and 25-year, 24 hour design storms (**Table 4)** for the Post-Remediation conditions, are less than the peak runoff flow rates when compared to Pre-Remediation condition for all design storms, thus satisfying the requirement of Maine regulations.

Table 4. Pre- and Post-Remediation Peak Flow Rates

	2-yr storm	10-yr storm	25-yr storm
Pre-Remediation Peak Flow Rate (cfs)	1.35	2.60	3.60
Post-Remediation Peak Flow Rate (cfs)	0.68	1.65	2.49
Peak Flow Rate Reduction	50%	37%	31%

RECOMMENDATIONS

Calculations provided within this package show that the Post-Remediation condition peak flow rates will be less than the Pre-Remediation peak flow rates under evaluated design storms. The graded slope under the Post-Remediation condition is 5% - 10%, which satisfies the requirement of Maine ESC manual. No additional stormwater diversions are required since the whole area will be stabilized by permanent vegetation, and the length of graded slope is less than 100 feet (i.e. no concentrated flow is expect to happen). The calculations show that the presented grading and stormwater management plans are sufficient to handle stormwater under the requirements of Maine regulations. If the Site conditions change from those assumed in the calculations then the results and recommendations shall be re-evaluated.

REFERENCES

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Written by:	**P. Tu/ T. Walter**	Date:	**11/19/2015**	Reviewed by:	**R. Bourdeau**	Date:	**11/30/2015**
Client:	**Mallinckrodt**	Project:	**Orrington Remediation Site**	Project/ Proposal No.:	**BR0292**	Task No.:	**11/02**

Attachment A

Web Soil Survey Report

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for

Penobscot County, Maine

Landfill 2, Orrington, ME

November 19, 2015

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

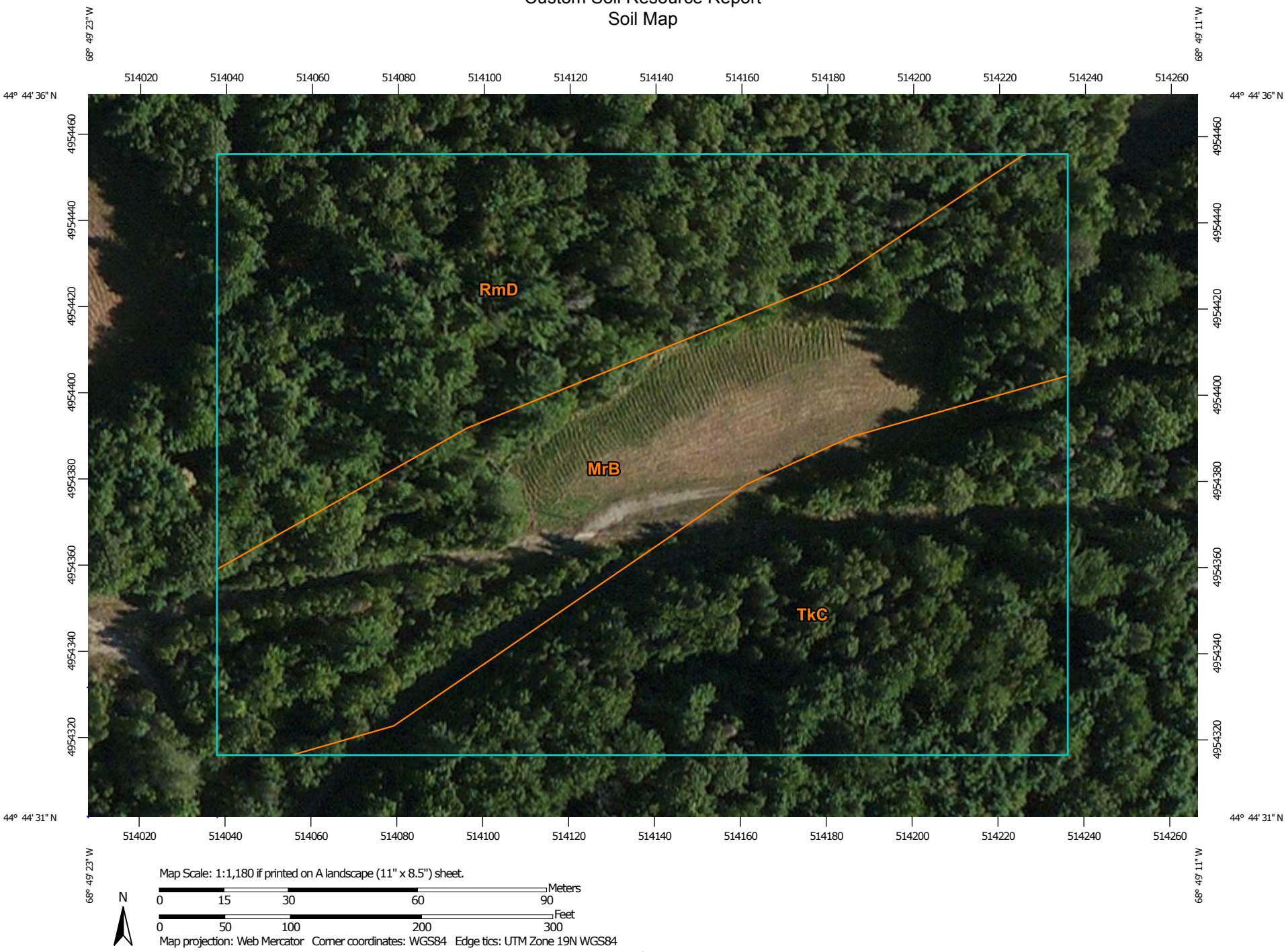
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:1,180 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Penobscot County, Maine
Survey Area Data: Version 14, Sep 14, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 27, 2010—Aug 31, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Penobscot County, Maine (ME614)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
MrB	Monarda-Burnham complex, 0 to 3 percent slopes, very stony	2.4	35.0%
RmD	Rockland, thorndike material, strongly sloping	2.3	33.5%
TkC	Thorndike very rocky silt loam, 8 to 15 percent slopes	2.2	31.4%
Totals for Area of Interest		**6.9**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments

on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Penobscot County, Maine

MrB—Monarda-Burnham complex, 0 to 3 percent slopes, very stony

Map Unit Setting

National map unit symbol: 2t0yn
Elevation: 120 to 2,500 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 37 to 41 degrees F
Frost-free period: 80 to 130 days
Farmland classification: Not prime farmland

Map Unit Composition

Monarda and similar soils: 45 percent
Burnham and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Monarda

Setting

Landform: Ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy lodgment till

Typical profile

Oe - 0 to 3 inches: mucky peat
Eg - 3 to 6 inches: silt loam
Bg - 6 to 20 inches: silt loam
Cd - 20 to 65 inches: gravelly silt loam

Properties and qualities

Slope: 0 to 3 percent
Percent of area covered with surface fragments: 1.5 percent
Depth to restrictive feature: 12 to 27 inches to densic material
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D

Description of Burnham

Setting

Landform: Ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy lodgment till

Typical profile

Oa - 0 to 13 inches: muck
Bg - 13 to 18 inches: channery silt loam
Cdg - 18 to 65 inches: channery silt loam

Properties and qualities

Slope: 0 to 2 percent
Percent of area covered with surface fragments: 1.5 percent
Depth to restrictive feature: 5 to 20 inches to densic material
Natural drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Available water storage in profile: Moderate (about 6.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D

RmD—Rockland, thorndike material, strongly sloping

Map Unit Setting

National map unit symbol: 9ktz
Elevation: 200 to 2,500 feet
Mean annual precipitation: 36 to 46 inches
Mean annual air temperature: 37 to 45 degrees F
Frost-free period: 100 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Rockland: 60 percent
Thorndike and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rockland

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Typical profile

R - 0 to 10 inches: bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Natural drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s

Description of Thorndike

Setting

Landform: Ridges, hills, till plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy melt-out till derived from phyllite and/or loamy melt-out till derived from slate

Typical profile

Oi - 0 to 2 inches: slightly decomposed plant material
H1 - 2 to 4 inches: channery silt loam
H2 - 4 to 21 inches: channery silt loam
R - 21 to 31 inches: bedrock

Properties and qualities

Slope: 15 to 25 percent
Percent of area covered with surface fragments: 1.6 percent
Depth to restrictive feature: 10 to 22 inches to lithic bedrock
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: C

TkC—Thorndike very rocky silt loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9kvw
Elevation: 200 to 2,500 feet
Mean annual precipitation: 36 to 46 inches

Mean annual air temperature: 37 to 45 degrees F
Frost-free period: 100 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Thorndike and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Thorndike

Setting

Landform: Ridges, hills, till plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy melt-out till derived from phyllite and/or loamy melt-out till derived from slate

Typical profile

Oi - 0 to 2 inches: slightly decomposed plant material
H1 - 2 to 4 inches: channery silt loam
H2 - 4 to 21 inches: channery silt loam
R - 21 to 31 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent
Percent of area covered with surface fragments: 1.6 percent
Depth to restrictive feature: 10 to 22 inches to lithic bedrock
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: C

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Glossary

Many of the terms relating to landforms, geology, and geomorphology are defined in more detail in the "National Soil Survey Handbook."

ABC soil

A soil having an A, a B, and a C horizon.

Ablation till

Loose, relatively permeable earthy material deposited during the downwasting of nearly static glacial ice, either contained within or accumulated on the surface of the glacier.

AC soil

A soil having only an A and a C horizon. Commonly, such soil formed in recent alluvium or on steep, rocky slopes.

Aeration, soil

The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil

Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Alkali (sodic) soil

A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Alluvial cone

A semiconical type of alluvial fan having very steep slopes. It is higher, narrower, and steeper than a fan and is composed of coarser and thicker layers of material deposited by a combination of alluvial episodes and (to a much lesser degree) landslides (debris flow). The coarsest materials tend to be concentrated at the apex of the cone.

Alluvial fan

A low, outspread mass of loose materials and/or rock material, commonly with gentle slopes. It is shaped like an open fan or a segment of a cone. The material was deposited by a stream at the place where it issues from a narrow mountain valley or upland valley or where a tributary stream is near or at its junction with the main stream. The fan is steepest near its apex, which points upstream, and slopes gently and convexly outward (downstream) with a gradual decrease in gradient.

Alluvium

Unconsolidated material, such as gravel, sand, silt, clay, and various mixtures of these, deposited on land by running water.

Alpha,alpha-dipyridyl

A compound that when dissolved in ammonium acetate is used to detect the presence of reduced iron (Fe II) in the soil. A positive reaction implies reducing conditions and the likely presence of redoximorphic features.

Animal unit month (AUM)

The amount of forage required by one mature cow of approximately 1,000 pounds weight, with or without a calf, for 1 month.

Aquic conditions

Current soil wetness characterized by saturation, reduction, and redoximorphic features.

Argillic horizon

A subsoil horizon characterized by an accumulation of illuvial clay.

Arroyo

The flat-floored channel of an ephemeral stream, commonly with very steep to vertical banks cut in unconsolidated material. It is usually dry but can be transformed into a temporary watercourse or short-lived torrent after heavy rain within the watershed.

Aspect

The direction toward which a slope faces. Also called slope aspect.

Association, soil

A group of soils or miscellaneous areas geographically associated in a characteristic repeating pattern and defined and delineated as a single map unit.

Available water capacity (available moisture capacity)

The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low: 0 to 3
Low: 3 to 6
Moderate: 6 to 9
High: 9 to 12
Very high: More than 12

Backslope

The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

Backswamp

A flood-plain landform. Extensive, marshy or swampy, depressed areas of flood plains between natural levees and valley sides or terraces.

Badland

A landscape that is intricately dissected and characterized by a very fine drainage network with high drainage densities and short, steep slopes and narrow interfluves. Badlands develop on surfaces that have little or no vegetative cover overlying unconsolidated or poorly cemented materials (clays, silts, or sandstones) with, in some cases, soluble minerals, such as gypsum or halite.

Bajada

A broad, gently inclined alluvial piedmont slope extending from the base of a mountain range out into a basin and formed by the lateral coalescence of a series of alluvial fans. Typically, it has a broadly undulating transverse profile, parallel to the mountain front, resulting from the convexities of component fans. The term is generally restricted to constructional slopes of intermontane basins.

Basal area

The area of a cross section of a tree, generally referring to the section at breast height and measured outside the bark. It is a measure of stand density, commonly expressed in square feet.

Base saturation

The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

Base slope (geomorphology)

A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

Bedding plane

A planar or nearly planar bedding surface that visibly separates each successive layer of stratified sediment or rock (of the same or different lithology) from the preceding or following layer; a plane of deposition. It commonly marks a change

in the circumstances of deposition and may show a parting, a color difference, a change in particle size, or various combinations of these. The term is commonly applied to any bedding surface, even one that is conspicuously bent or deformed by folding.

Bedding system

A drainage system made by plowing, grading, or otherwise shaping the surface of a flat field. It consists of a series of low ridges separated by shallow, parallel dead furrows.

Bedrock

The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

Bedrock-controlled topography

A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.

Bench terrace

A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.

Bisequum

Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.

Blowout (map symbol)

A saucer-, cup-, or trough-shaped depression formed by wind erosion on a preexisting dune or other sand deposit, especially in an area of shifting sand or loose soil or where protective vegetation is disturbed or destroyed. The adjoining accumulation of sand derived from the depression, where recognizable, is commonly included. Blowouts are commonly small.

Borrow pit (map symbol)

An open excavation from which soil and underlying material have been removed, usually for construction purposes.

Bottom land

An informal term loosely applied to various portions of a flood plain.

Boulders

Rock fragments larger than 2 feet (60 centimeters) in diameter.

Breaks

A landscape or tract of steep, rough or broken land dissected by ravines and gullies and marking a sudden change in topography.

Breast height

An average height of 4.5 feet above the ground surface; the point on a tree where diameter measurements are ordinarily taken.

Brush management

Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

Butte

An isolated, generally flat-topped hill or mountain with relatively steep slopes and talus or precipitous cliffs and characterized by summit width that is less than the height of bounding escarpments; commonly topped by a caprock of resistant material and representing an erosion remnant carved from flat-lying rocks.

Cable yarding

A method of moving felled trees to a nearby central area for transport to a processing facility. Most cable yarding systems involve use of a drum, a pole, and wire cables in an arrangement similar to that of a rod and reel used for fishing. To reduce friction and soil disturbance, felled trees generally are reeled in while one end is lifted or the entire log is suspended.

Calcareous soil

A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

Caliche

A general term for a prominent zone of secondary carbonate accumulation in surficial materials in warm, subhumid to arid areas. Caliche is formed by both geologic and pedologic processes. Finely crystalline calcium carbonate forms a nearly continuous surface-coating and void-filling medium in geologic (parent) materials. Cementation ranges from weak in nonindurated forms to very strong in indurated forms. Other minerals (e.g., carbonates, silicate, and sulfate) may occur as accessory cements. Most petrocalcic horizons and some calcic horizons are caliche.

California bearing ratio (CBR)

The load-supporting capacity of a soil as compared to that of standard crushed limestone, expressed as a ratio. First standardized in California. A soil having a CBR of 16 supports 16 percent of the load that would be supported by standard crushed limestone, per unit area, with the same degree of distortion.

Canopy

The leafy crown of trees or shrubs. (See Crown.)

Canyon

A long, deep, narrow valley with high, precipitous walls in an area of high local relief.

Capillary water

Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

Catena

A sequence, or “chain,” of soils on a landscape that formed in similar kinds of parent material and under similar climatic conditions but that have different characteristics as a result of differences in relief and drainage.

Cation

An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

Cation-exchange capacity

The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

Catsteps

See Terracettes.

Cement rock

Shaly limestone used in the manufacture of cement.

Channery soil material

Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.

Chemical treatment

Control of unwanted vegetation through the use of chemicals.

Chiseling

Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.

Cirque

A steep-walled, semicircular or crescent-shaped, half-bowl-like recess or hollow, commonly situated at the head of a glaciated mountain valley or high on the side of a mountain. It was produced by the erosive activity of a mountain glacier. It commonly contains a small round lake (tarn).

Clay

As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

Clay depletions

See Redoximorphic features.

Clay film

A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.

Clay spot (map symbol)

A spot where the surface texture is silty clay or clay in areas where the surface layer of the soils in the surrounding map unit is sandy loam, loam, silt loam, or coarser.

Claypan

A dense, compact subsoil layer that contains much more clay than the overlying materials, from which it is separated by a sharply defined boundary. The layer restricts the downward movement of water through the soil. A claypan is commonly hard when dry and plastic and sticky when wet.

Climax plant community

The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.

Coarse textured soil

Sand or loamy sand.

Cobble (or cobblestone)

A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

Cobbly soil material

Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.

COLE (coefficient of linear extensibility)

See Linear extensibility.

Colluvium

Unconsolidated, unsorted earth material being transported or deposited on side slopes and/or at the base of slopes by mass movement (e.g., direct gravitational action) and by local, unconcentrated runoff.

Complex slope

Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.

Complex, soil

A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

Concretions

See Redoximorphic features.

Conglomerate

A coarse grained, clastic sedimentary rock composed of rounded or subangular rock fragments more than 2 millimeters in diameter. It commonly has a matrix of sand and finer textured material. Conglomerate is the consolidated equivalent of gravel.

Conservation cropping system

Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crops and practices more than offset the effects of the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.

Conservation tillage

A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.

Consistence, soil

Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the “Soil Survey Manual.”

Contour stripcropping

Growing crops in strips that follow the contour. Strips of grass or close-growing crops are alternated with strips of clean-tilled crops or summer fallow.

Control section

The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.

Coprogenous earth (sedimentary peat)

A type of limnic layer composed predominantly of fecal material derived from aquatic animals.

Corrosion (geomorphology)

A process of erosion whereby rocks and soil are removed or worn away by natural chemical processes, especially by the solvent action of running water, but also by other reactions, such as hydrolysis, hydration, carbonation, and oxidation.

Corrosion (soil survey interpretations)

Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.

Cover crop

A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.

Crop residue management

Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.

Cropping system

Growing crops according to a planned system of rotation and management practices.

Cross-slope farming

Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.

Crown

The upper part of a tree or shrub, including the living branches and their foliage.

Cryoturbate

A mass of soil or other unconsolidated earthy material moved or disturbed by frost action. It is typically coarser than the underlying material.

Cuesta

An asymmetric ridge capped by resistant rock layers of slight or moderate dip (commonly less than 15 percent slopes); a type of homocline produced by differential erosion of interbedded resistant and weak rocks. A cuesta has a long, gentle slope on one side (dip slope) that roughly parallels the inclined beds; on the other side, it has a relatively short and steep or clifflike slope (scarp) that cuts through the tilted rocks.

Culmination of the mean annual increment (CMAI)

The average annual increase per acre in the volume of a stand. Computed by dividing the total volume of the stand by its age. As the stand increases in age,

the mean annual increment continues to increase until mortality begins to reduce the rate of increase. The point where the stand reaches its maximum annual rate of growth is called the culmination of the mean annual increment.

Cutbanks cave

The walls of excavations tend to cave in or slough.

Decreasers

The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.

Deferred grazing

Postponing grazing or resting grazing land for a prescribed period.

Delta

A body of alluvium having a surface that is fan shaped and nearly flat; deposited at or near the mouth of a river or stream where it enters a body of relatively quiet water, generally a sea or lake.

Dense layer

A very firm, massive layer that has a bulk density of more than 1.8 grams per cubic centimeter. Such a layer affects the ease of digging and can affect filling and compacting.

Depression, closed (map symbol)

A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and that does not have a natural outlet for surface drainage.

Depth, soil

Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.

Desert pavement

A natural, residual concentration or layer of wind-polished, closely packed gravel, boulders, and other rock fragments mantling a desert surface. It forms where wind action and sheetwash have removed all smaller particles or where rock fragments have migrated upward through sediments to the surface. It typically protects the finer grained underlying material from further erosion.

Diatomaceous earth

A geologic deposit of fine, grayish siliceous material composed chiefly or entirely of the remains of diatoms.

Dip slope

A slope of the land surface, roughly determined by and approximately conforming to the dip of the underlying bedrock.

Diversion (or diversion terrace)

A ridge of earth, generally a terrace, built to protect downslope areas by diverting runoff from its natural course.

Divided-slope farming

A form of field stripcropping in which crops are grown in a systematic arrangement of two strips, or bands, across the slope to reduce the hazard of water erosion. One strip is in a close-growing crop that provides protection from erosion, and the other strip is in a crop that provides less protection from erosion. This practice is used where slopes are not long enough to permit a full stripcropping pattern to be used.

Drainage class (natural)

Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—*excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained,* and *very poorly drained*. These classes are defined in the “Soil Survey Manual.”

Drainage, surface

Runoff, or surface flow of water, from an area.

Drainageway

A general term for a course or channel along which water moves in draining an area. A term restricted to relatively small, linear depressions that at some time move concentrated water and either do not have a defined channel or have only a small defined channel.

Draw

A small stream valley that generally is shallower and more open than a ravine or gulch and that has a broader bottom. The present stream channel may appear inadequate to have cut the drainageway that it occupies.

Drift

A general term applied to all mineral material (clay, silt, sand, gravel, and boulders) transported by a glacier and deposited directly by or from the ice or transported by running water emanating from a glacier. Drift includes unstratified material (till) that forms moraines and stratified deposits that form outwash plains, eskers, kames, varves, and glaciofluvial sediments. The term is generally applied to Pleistocene glacial deposits in areas that no longer contain glaciers.

Drumlin

A low, smooth, elongated oval hill, mound, or ridge of compact till that has a core of bedrock or drift. It commonly has a blunt nose facing the direction from which the ice approached and a gentler slope tapering in the other direction. The longer axis is parallel to the general direction of glacier flow. Drumlins are products of

streamline (laminar) flow of glaciers, which molded the subglacial floor through a combination of erosion and deposition.

Duff

A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.

Dune

A low mound, ridge, bank, or hill of loose, windblown granular material (generally sand), either barren and capable of movement from place to place or covered and stabilized with vegetation but retaining its characteristic shape.

Earthy fill

See Mine spoil.

Ecological site

An area where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. An ecological site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other ecological sites in kind and/or proportion of species or in total production.

Eluviation

The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.

Endosaturation

A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

Eolian deposit

Sand-, silt-, or clay-sized clastic material transported and deposited primarily by wind, commonly in the form of a dune or a sheet of sand or loess.

Ephemeral stream

A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.

Episaturation

A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.

Erosion

The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

Erosion (accelerated)

Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

Erosion (geologic)

Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

Erosion pavement

A surficial lag concentration or layer of gravel and other rock fragments that remains on the soil surface after sheet or rill erosion or wind has removed the finer soil particles and that tends to protect the underlying soil from further erosion.

Erosion surface

A land surface shaped by the action of erosion, especially by running water.

Escarpment

A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Most commonly applied to cliffs produced by differential erosion. Synonym: scarp.

Escarpment, bedrock (map symbol)

A relatively continuous and steep slope or cliff, produced by erosion or faulting, that breaks the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.

Escarpment, nonbedrock (map symbol)

A relatively continuous and steep slope or cliff, generally produced by erosion but in some places produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.

Esker

A long, narrow, sinuous, steep-sided ridge of stratified sand and gravel deposited as the bed of a stream flowing in an ice tunnel within or below the ice (subglacial) or between ice walls on top of the ice of a wasting glacier and left behind as high ground when the ice melted. Eskers range in length from less than a kilometer to more than 160 kilometers and in height from 3 to 30 meters.

Extrusive rock

Igneous rock derived from deep-seated molten matter (magma) deposited and cooled on the earth’s surface.

Fallow

Cropland left idle in order to restore productivity through accumulation of moisture. Summer fallow is common in regions of limited rainfall where cereal grain is grown.

The soil is tilled for at least one growing season for weed control and decomposition of plant residue.

Fan remnant

A general term for landforms that are the remaining parts of older fan landforms, such as alluvial fans, that have been either dissected or partially buried.

Fertility, soil

The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

Fibric soil material (peat)

The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.

Field moisture capacity

The moisture content of a soil, expressed as a percentage of the ovendry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity, normal moisture capacity,* or *capillary capacity*.

Fill slope

A sloping surface consisting of excavated soil material from a road cut. It commonly is on the downhill side of the road.

Fine textured soil

Sandy clay, silty clay, or clay.

Firebreak

An area cleared of flammable material to stop or help control creeping or running fires. It also serves as a line from which to work and to facilitate the movement of firefighters and equipment. Designated roads also serve as firebreaks.

First bottom

An obsolete, informal term loosely applied to the lowest flood-plain steps that are subject to regular flooding.

Flaggy soil material

Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

Flagstone

A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain

The nearly level plain that borders a stream and is subject to flooding unless protected artificially.

Flood-plain landforms

A variety of constructional and erosional features produced by stream channel migration and flooding. Examples include backswamps, flood-plain splays, meanders, meander belts, meander scrolls, oxbow lakes, and natural levees.

Flood-plain splay

A fan-shaped deposit or other outspread deposit formed where an overloaded stream breaks through a levee (natural or artificial) and deposits its material (commonly coarse grained) on the flood plain.

Flood-plain step

An essentially flat, terrace-like alluvial surface within a valley that is frequently covered by floodwater from the present stream; any approximately horizontal surface still actively modified by fluvial scour and/or deposition. May occur individually or as a series of steps.

Fluvial

Of or pertaining to rivers or streams; produced by stream or river action.

Foothills

A region of steeply sloping hills that fringes a mountain range or high-plateau escarpment. The hills have relief of as much as 1,000 feet (300 meters).

Footslope

The concave surface at the base of a hillslope. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).

Forb

Any herbaceous plant not a grass or a sedge.

Forest cover

All trees and other woody plants (underbrush) covering the ground in a forest.

Forest type

A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.

Fragipan

A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.

Genesis, soil

The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.

Gilgai

Commonly, a succession of microbasins and microknolls in nearly level areas or of microvalleys and microridges parallel with the slope. Typically, the microrelief of clayey soils that shrink and swell considerably with changes in moisture content.

Glaciofluvial deposits

Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur in the form of outwash plains, valley trains, deltas, kames, eskers, and kame terraces.

Glaciolacustrine deposits

Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are bedded or laminated.

Gleyed soil

Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.

Graded stripcropping

Growing crops in strips that grade toward a protected waterway.

Grassed waterway

A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.

Gravel

Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

Gravel pit (map symbol)

An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel.

Gravelly soil material

Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.

Gravelly spot (map symbol)

A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in an area that has less than 15 percent rock fragments.

Green manure crop (agronomy)

A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.

Ground water

Water filling all the unblocked pores of the material below the water table.

Gully (map symbol)

A small, steep-sided channel caused by erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage whereas a rill is of lesser depth and can be smoothed over by ordinary tillage.

Hard bedrock

Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

Hard to reclaim

Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

Hardpan

A hardened or cemented soil horizon, or layer. The soil material is sandy, loamy, or clayey and is cemented by iron oxide, silica, calcium carbonate, or other substance.

Head slope (geomorphology)

A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.

Hemic soil material (mucky peat)

Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.

High-residue crops

Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.

Hill

A generic term for an elevated area of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline. Slopes are generally more than 15 percent. The distinction between a hill and a mountain is arbitrary and may depend on local usage.

Hillslope

A generic term for the steeper part of a hill between its summit and the drainage line, valley flat, or depression floor at the base of a hill.

Horizon, soil

A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the “Soil Survey Manual.” The major horizons of mineral soil are as follows:

O horizon: An organic layer of fresh and decaying plant residue.

L horizon: A layer of organic and mineral limnic materials, including coprogenous earth (sedimentary peat), diatomaceous earth, and marl.

A horizon: The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

E horizon: The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon: The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon: The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

Cr horizon: Soft, consolidated bedrock beneath the soil.

R layer: Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

M layer: A root-limiting subsoil layer consisting of nearly continuous, horizontally oriented, human-manufactured materials.

W layer: A layer of water within or beneath the soil.

Humus

The well decomposed, more or less stable part of the organic matter in mineral soils.

Hydrologic soil groups

Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties include depth to a seasonal high water table, the infiltration rate, and depth to a layer that significantly restricts the downward movement of water. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Igneous rock

Rock that was formed by cooling and solidification of magma and that has not been changed appreciably by weathering since its formation. Major varieties include plutonic and volcanic rock (e.g., andesite, basalt, and granite).

Illuviation

The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

Impervious soil

A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Increasers

Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasers commonly are the shorter plants and the less palatable to livestock.

Infiltration

The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

Infiltration capacity

The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate

The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Intake rate

The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Very low: Less than 0.2

Low: 0.2 to 0.4

Moderately low: 0.4 to 0.75

Moderate: 0.75 to 1.25

Moderately high: 1.25 to 1.75

High: 1.75 to 2.5

Very high: More than 2.5

Interfluve

A landform composed of the relatively undissected upland or ridge between two adjacent valleys containing streams flowing in the same general direction. An elevated area between two drainageways that sheds water to those drainageways.

Interfluve (geomorphology)

A geomorphic component of hills consisting of the uppermost, comparatively level or gently sloping area of a hill; shoulders of backwearing hillslopes can narrow the upland or can merge, resulting in a strongly convex shape.

Intermittent stream

A stream, or reach of a stream, that does not flow year-round but that is commonly dry for 3 or more months out of 12 and whose channel is generally below the local water table. It flows only during wet periods or when it receives ground-water discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.

Invaders

On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.

Iron depletions

See Redoximorphic features.

Irrigation

Application of water to soils to assist in production of crops. Methods of irrigation are:

Basin: Water is applied rapidly to nearly level plains surrounded by levees or dikes.

Border: Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes, or borders.

Controlled flooding: Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation: Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.

Drip (or trickle): Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.

Furrow: Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.

Sprinkler: Water is sprayed over the soil surface through pipes or nozzles from a pressure system.

Subirrigation: Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.

Wild flooding: Water, released at high points, is allowed to flow onto an area without controlled distribution.

Kame

A low mound, knob, hummock, or short irregular ridge composed of stratified sand and gravel deposited by a subglacial stream as a fan or delta at the margin of a melting glacier; by a supraglacial stream in a low place or hole on the surface of the glacier; or as a ponded deposit on the surface or at the margin of stagnant ice.

Karst (topography)

A kind of topography that formed in limestone, gypsum, or other soluble rocks by dissolution and that is characterized by closed depressions, sinkholes, caves, and underground drainage.

Knoll

A small, low, rounded hill rising above adjacent landforms.

Ksat

See Saturated hydraulic conductivity.

Lacustrine deposit

Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.

Lake plain

A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varves.

Lake terrace

A narrow shelf, partly cut and partly built, produced along a lakeshore in front of a scarp line of low cliffs and later exposed when the water level falls.

Landfill (map symbol)

An area of accumulated waste products of human habitation, either above or below natural ground level.

Landslide

A general, encompassing term for most types of mass movement landforms and processes involving the downslope transport and outward deposition of soil and rock materials caused by gravitational forces; the movement may or may not involve saturated materials. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

Large stones

Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

Lava flow (map symbol)

A solidified, commonly lobate body of rock formed through lateral, surface outpouring of molten lava from a vent or fissure.

Leaching

The removal of soluble material from soil or other material by percolating water.

Levee (map symbol)

An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow onto lowlands.

Linear extensibility

Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at $^{1}/_{3}$- or $^{1}/_{10}$-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

Liquid limit

The moisture content at which the soil passes from a plastic to a liquid state.

Loam

Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

Loess

Material transported and deposited by wind and consisting dominantly of silt-sized particles.

Low strength

The soil is not strong enough to support loads.

Low-residue crops

Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.

Marl

An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal proportions; formed primarily under freshwater lacustrine conditions but also formed in more saline environments.

Marsh or swamp (map symbol)

A water-saturated, very poorly drained area that is intermittently or permanently covered by water. Sedges, cattails, and rushes are the dominant vegetation in marshes, and trees or shrubs are the dominant vegetation in swamps. Not used in map units where the named soils are poorly drained or very poorly drained.

Mass movement

A generic term for the dislodgment and downslope transport of soil and rock material as a unit under direct gravitational stress.

Masses

See Redoximorphic features.

Meander belt

The zone within which migration of a meandering channel occurs; the flood-plain area included between two imaginary lines drawn tangential to the outer bends of active channel loops.

Meander scar

A crescent-shaped, concave or linear mark on the face of a bluff or valley wall, produced by the lateral erosion of a meandering stream that impinged upon and undercut the bluff.

Meander scroll

One of a series of long, parallel, close-fitting, crescent-shaped ridges and troughs formed along the inner bank of a stream meander as the channel migrated laterally down-valley and toward the outer bank.

Mechanical treatment

Use of mechanical equipment for seeding, brush management, and other management practices.

Medium textured soil

Very fine sandy loam, loam, silt loam, or silt.

Mesa

A broad, nearly flat topped and commonly isolated landmass bounded by steep slopes or precipitous cliffs and capped by layers of resistant, nearly horizontal rocky material. The summit width is characteristically greater than the height of the bounding escarpments.

Metamorphic rock

Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement at depth in the earth's crust. Nearly all such rocks are crystalline.

Mine or quarry (map symbol)

An open excavation from which soil and underlying material have been removed and in which bedrock is exposed. Also denotes surface openings to underground mines.

Mine spoil

An accumulation of displaced earthy material, rock, or other waste material removed during mining or excavation. Also called earthy fill.

Mineral soil

Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Minimum tillage

Only the tillage essential to crop production and prevention of soil damage.

Miscellaneous area

A kind of map unit that has little or no natural soil and supports little or no vegetation.

Miscellaneous water (map symbol)

Small, constructed bodies of water that are used for industrial, sanitary, or mining applications and that contain water most of the year.

Moderately coarse textured soil

Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately fine textured soil

Clay loam, sandy clay loam, or silty clay loam.

Mollic epipedon

A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Moraine

In terms of glacial geology, a mound, ridge, or other topographically distinct accumulation of unsorted, unstratified drift, predominantly till, deposited primarily by the direct action of glacial ice in a variety of landforms. Also, a general term for a landform composed mainly of till (except for kame moraines, which are composed mainly of stratified outwash) that has been deposited by a glacier. Some types of moraines are disintegration, end, ground, kame, lateral, recessional, and terminal.

Morphology, soil

The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil

Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance—*few, common,* and *many;* size—*fine, medium,* and *coarse;* and contrast—*faint, distinct,* and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium,* from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse,* more than 15 millimeters (about 0.6 inch).

Mountain

A generic term for an elevated area of the land surface, rising more than 1,000 feet (300 meters) above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range. Mountains are formed primarily by tectonic activity and/or volcanic action but can also be formed by differential erosion.

Muck

Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mucky peat

See Hemic soil material.

Mudstone

A blocky or massive, fine grained sedimentary rock in which the proportions of clay and silt are approximately equal. Also, a general term for such material as clay, silt, claystone, siltstone, shale, and argillite and that should be used only when the amounts of clay and silt are not known or cannot be precisely identified.

Munsell notation

A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Natric horizon

A special kind of argillic horizon that contains enough exchangeable sodium to have an adverse effect on the physical condition of the subsoil.

Neutral soil

A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

Nodules

See Redoximorphic features.

Nose slope (geomorphology)

A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent. Nose slopes consist dominantly of colluvium and slope-wash sediments (for example, slope alluvium).

Nutrient, plant

Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Organic matter

Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

Very low: Less than 0.5 percent
Low: 0.5 to 1.0 percent
Moderately low: 1.0 to 2.0 percent
Moderate: 2.0 to 4.0 percent
High: 4.0 to 8.0 percent
Very high: More than 8.0 percent

Outwash

Stratified and sorted sediments (chiefly sand and gravel) removed or “washed out” from a glacier by meltwater streams and deposited in front of or beyond the end moraine or the margin of a glacier. The coarser material is deposited nearer to the ice.

Outwash plain

An extensive lowland area of coarse textured glaciofluvial material. An outwash plain is commonly smooth; where pitted, it generally is low in relief.

Paleoterrace

An erosional remnant of a terrace that retains the surface form and alluvial deposits of its origin but was not emplaced by, and commonly does not grade to, a present-day stream or drainage network.

Pan

A compact, dense layer in a soil that impedes the movement of water and the growth of roots. For example, *hardpan, fragipan, claypan, plowpan,* and *traffic pan*.

Parent material

The unconsolidated organic and mineral material in which soil forms.

Peat

Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped

An individual natural soil aggregate, such as a granule, a prism, or a block.

Pedisediment

A layer of sediment, eroded from the shoulder and backslope of an erosional slope, that lies on and is being (or was) transported across a gently sloping erosional surface at the foot of a receding hill or mountain slope.

Pedon

The smallest volume that can be called “a soil.” A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

Percolation

The movement of water through the soil.

Perennial water (map symbol)

Small, natural or constructed lakes, ponds, or pits that contain water most of the year.

Permafrost

Ground, soil, or rock that remains at or below 0 degrees C for at least 2 years. It is defined on the basis of temperature and is not necessarily frozen.

pH value

A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

Phase, soil

A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

Piping

Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

Pitting

Pits caused by melting around ice. They form on the soil after plant cover is removed.

Plastic limit

The moisture content at which a soil changes from semisolid to plastic.

Plasticity index

The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

Plateau (geomorphology)

A comparatively flat area of great extent and elevation; specifically, an extensive land region that is considerably elevated (more than 100 meters) above the adjacent lower lying terrain, is commonly limited on at least one side by an abrupt descent, and has a flat or nearly level surface. A comparatively large part of a plateau surface is near summit level.

Playa

The generally dry and nearly level lake plain that occupies the lowest parts of closed depressions, such as those on intermontane basin floors. Temporary flooding occurs primarily in response to precipitation and runoff. Playa deposits are fine grained and may or may not have a high water table and saline conditions.

Plinthite

The sesquioxide-rich, humus-poor, highly weathered mixture of clay with quartz and other diluents. It commonly appears as red mottles, usually in platy, polygonal, or reticulate patterns. Plinthite changes irreversibly to an ironstone hardpan or to irregular aggregates on repeated wetting and drying, especially if it is exposed also to heat from the sun. In a moist soil, plinthite can be cut with a spade. It is a form of laterite.

Plowpan

A compacted layer formed in the soil directly below the plowed layer.

Ponding

Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

Poorly graded

Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

Pore linings

See Redoximorphic features.

Potential native plant community

See Climax plant community.

Potential rooting depth (effective rooting depth)

Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.

Prescribed burning

Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

Productivity, soil

The capability of a soil for producing a specified plant or sequence of plants under specific management.

Profile, soil

A vertical section of the soil extending through all its horizons and into the parent material.

Proper grazing use

Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.

Rangeland

Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Reaction, soil

A measure of acidity or alkalinity of a soil, expressed as pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid: Less than 3.5
Extremely acid: 3.5 to 4.4
Very strongly acid: 4.5 to 5.0
Strongly acid: 5.1 to 5.5
Moderately acid: 5.6 to 6.0
Slightly acid: 6.1 to 6.5
Neutral: 6.6 to 7.3
Slightly alkaline: 7.4 to 7.8
Moderately alkaline: 7.9 to 8.4
Strongly alkaline: 8.5 to 9.0
Very strongly alkaline: 9.1 and higher

Red beds

Sedimentary strata that are mainly red and are made up largely of sandstone and shale.

Redoximorphic concentrations

See Redoximorphic features.

Redoximorphic depletions

See Redoximorphic features.

Redoximorphic features

Redoximorphic features are associated with wetness and result from alternating periods of reduction and oxidation of iron and manganese compounds in the soil. Reduction occurs during saturation with water, and oxidation occurs when the soil is not saturated. Characteristic color patterns are created by these processes. The reduced iron and manganese ions may be removed from a soil if vertical or lateral fluxes of water occur, in which case there is no iron or manganese precipitation in that soil. Wherever the iron and manganese are oxidized and precipitated, they

form either soft masses or hard concretions or nodules. Movement of iron and manganese as a result of redoximorphic processes in a soil may result in redoximorphic features that are defined as follows:

1. Redoximorphic concentrations.—These are zones of apparent accumulation of iron-manganese oxides, including:
   A. Nodules and concretions, which are cemented bodies that can be removed from the soil intact. Concretions are distinguished from nodules on the basis of internal organization. A concretion typically has concentric layers that are visible to the naked eye. Nodules do not have visible organized internal structure; *and*
   B. Masses, which are noncemented concentrations of substances within the soil matrix; *and*
   C. Pore linings, i.e., zones of accumulation along pores that may be either coatings on pore surfaces or impregnations from the matrix adjacent to the pores.
2. Redoximorphic depletions.—These are zones of low chroma (chromas less than those in the matrix) where either iron-manganese oxides alone or both iron-manganese oxides and clay have been stripped out, including:
   A. Iron depletions, i.e., zones that contain low amounts of iron and manganese oxides but have a clay content similar to that of the adjacent matrix; *and*
   B. Clay depletions, i.e., zones that contain low amounts of iron, manganese, and clay (often referred to as silt coatings or skeletans).
3. Reduced matrix.—This is a soil matrix that has low chroma *in situ* but undergoes a change in hue or chroma within 30 minutes after the soil material has been exposed to air.

Reduced matrix

See Redoximorphic features.

Regolith

All unconsolidated earth materials above the solid bedrock. It includes material weathered in place from all kinds of bedrock and alluvial, glacial, eolian, lacustrine, and pyroclastic deposits.

Relief

The relative difference in elevation between the upland summits and the lowlands or valleys of a given region.

Residuum (residual soil material)

Unconsolidated, weathered or partly weathered mineral material that accumulated as bedrock disintegrated in place.

Rill

A very small, steep-sided channel resulting from erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. A rill generally is not an obstacle to wheeled vehicles and is shallow enough to be smoothed over by ordinary tillage.

Riser

The vertical or steep side slope (e.g., escarpment) of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural, steplike landforms, such as successive stream terraces.

Road cut

A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.

Rock fragments

Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.

Rock outcrop (map symbol)

An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock or where “Rock outcrop” is a named component of the map unit.

Root zone

The part of the soil that can be penetrated by plant roots.

Runoff

The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called ground-water runoff or seepage flow from ground water.

Saline soil

A soil containing soluble salts in an amount that impairs growth of plants. A saline soil does not contain excess exchangeable sodium.

Saline spot (map symbol)

An area where the surface layer has an electrical conductivity of 8 mmhos/cm more than the surface layer of the named soils in the surrounding map unit. The surface layer of the surrounding soils has an electrical conductivity of 2 mmhos/cm or less.

Sand

As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

Sandstone

Sedimentary rock containing dominantly sand-sized particles.

Sandy spot (map symbol)

A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer.

Sapric soil material (muck)

The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.

Saturated hydraulic conductivity (Ksat)

The ease with which pores of a saturated soil transmit water. Formally, the proportionality coefficient that expresses the relationship of the rate of water movement to hydraulic gradient in Darcy's Law, a law that describes the rate of water movement through porous media. Commonly abbreviated as "Ksat." Terms describing saturated hydraulic conductivity are:

Very high: 100 or more micrometers per second (14.17 or more inches per hour)

High: 10 to 100 micrometers per second (1.417 to 14.17 inches per hour)

Moderately high: 1 to 10 micrometers per second (0.1417 inch to 1.417 inches per hour)

Moderately low: 0.1 to 1 micrometer per second (0.01417 to 0.1417 inch per hour)

Low: 0.01 to 0.1 micrometer per second (0.001417 to 0.01417 inch per hour)

Very low: Less than 0.01 micrometer per second (less than 0.001417 inch per hour).

To convert inches per hour to micrometers per second, multiply inches per hour by 7.0572. To convert micrometers per second to inches per hour, multiply micrometers per second by 0.1417.

Saturation

Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

Scarification

The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.

Sedimentary rock

A consolidated deposit of clastic particles, chemical precipitates, or organic remains accumulated at or near the surface of the earth under normal low temperature and pressure conditions. Sedimentary rocks include consolidated equivalents of alluvium, colluvium, drift, and eolian, lacustrine, and marine deposits. Examples are sandstone, siltstone, mudstone, claystone, shale, conglomerate, limestone, dolomite, and coal.

Sequum

A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)

Series, soil

A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

Severely eroded spot (map symbol)

An area where, on the average, 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units in which “severely eroded,” “very severely eroded,” or “gullied” is part of the map unit name.

Shale

Sedimentary rock that formed by the hardening of a deposit of clay, silty clay, or silty clay loam and that has a tendency to split into thin layers.

Sheet erosion

The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.

Short, steep slope (map symbol)

A narrow area of soil having slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.

Shoulder

The convex, erosional surface near the top of a hillslope. A shoulder is a transition from summit to backslope.

Shrink-swell

The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

Shrub-coppice dune

A small, streamlined dune that forms around brush and clump vegetation.

Side slope (geomorphology)

A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel. Side slopes are dominantly colluvium and slope-wash sediments.

Silica

A combination of silicon and oxygen. The mineral form is called quartz.

Silica-sesquioxide ratio

The ratio of the number of molecules of silica to the number of molecules of alumina and iron oxide. The more highly weathered soils or their clay fractions in warm-temperate, humid regions, and especially those in the tropics, generally have a low ratio.

Silt

As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

Siltstone

An indurated silt having the texture and composition of shale but lacking its fine lamination or fissility; a massive mudstone in which silt predominates over clay.

Similar soils

Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

Sinkhole (map symbol)

A closed, circular or elliptical depression, commonly funnel shaped, characterized by subsurface drainage and formed either by dissolution of the surface of underlying bedrock (e.g., limestone, gypsum, or salt) or by collapse of underlying caves within bedrock. Complexes of sinkholes in carbonate-rock terrain are the main components of karst topography.

Site index

A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

Slickensides (pedogenic)

Grooved, striated, and/or glossy (shiny) slip faces on structural peds, such as wedges; produced by shrink-swell processes, most commonly in soils that have a high content of expansive clays.

Slide or slip (map symbol)

A prominent landform scar or ridge caused by fairly recent mass movement or descent of earthy material resulting from failure of earth or rock under shear stress along one or several surfaces.

Slope

The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.

Slope alluvium

Sediment gradually transported down the slopes of mountains or hills primarily by nonchannel alluvial processes (i.e., slope-wash processes) and characterized by particle sorting. Lateral particle sorting is evident on long slopes. In a profile sequence, sediments may be distinguished by differences in size and/or specific gravity of rock fragments and may be separated by stone lines. Burnished peds

and sorting of rounded or subrounded pebbles or cobbles distinguish these materials from unsorted colluvial deposits.

Slow refill

The slow filling of ponds, resulting from restricted water transmission in the soil.

Slow water movement

Restricted downward movement of water through the soil. See Saturated hydraulic conductivity.

Sodic (alkali) soil

A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Sodic spot (map symbol)

An area where the surface layer has a sodium adsorption ratio that is at least 10 more than that of the surface layer of the named soils in the surrounding map unit. The surface layer of the surrounding soils has a sodium adsorption ratio of 5 or less.

Sodicity

The degree to which a soil is affected by exchangeable sodium. Sodicity is expressed as a sodium adsorption ratio (SAR) of a saturation extract, or the ratio of Na^{+} to Ca^{++} + Mg^{++}. The degrees of sodicity and their respective ratios are:

Slight: Less than 13:1

Moderate: 13-30:1

Strong: More than 30:1

Sodium adsorption ratio (SAR)

A measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration.

Soft bedrock

Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

Soil

A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief and by the passage of time.

Soil separates

Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand: 2.0 to 1.0
Coarse sand: 1.0 to 0.5
Medium sand: 0.5 to 0.25
Fine sand: 0.25 to 0.10
Very fine sand: 0.10 to 0.05
Silt: 0.05 to 0.002
Clay: Less than 0.002

Solum

The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

Spoil area (map symbol)

A pile of earthy materials, either smoothed or uneven, resulting from human activity.

Stone line

In a vertical cross section, a line formed by scattered fragments or a discrete layer of angular and subangular rock fragments (commonly a gravel- or cobble-sized lag concentration) that formerly was draped across a topographic surface and was later buried by additional sediments. A stone line generally caps material that was subject to weathering, soil formation, and erosion before burial. Many stone lines seem to be buried erosion pavements, originally formed by sheet and rill erosion across the land surface.

Stones

Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

Stony

Refers to a soil containing stones in numbers that interfere with or prevent tillage.

Stony spot (map symbol)

A spot where 0.01 to 0.1 percent of the soil surface is covered by rock fragments that are more than 10 inches in diameter in areas where the surrounding soil has no surface stones.

Strath terrace

A type of stream terrace; formed as an erosional surface cut on bedrock and thinly mantled with stream deposits (alluvium).

Stream terrace

One of a series of platforms in a stream valley, flanking and more or less parallel to the stream channel, originally formed near the level of the stream; represents

the remnants of an abandoned flood plain, stream bed, or valley floor produced during a former state of fluvial erosion or deposition.

Stripcropping

Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to wind erosion and water erosion.

Structure, soil

The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are:

Platy: Flat and laminated

Prismatic: Vertically elongated and having flat tops

Columnar: Vertically elongated and having rounded tops

Angular blocky: Having faces that intersect at sharp angles (planes)

Subangular blocky: Having subrounded and planar faces (no sharp angles)

Granular: Small structural units with curved or very irregular faces

Structureless soil horizons are defined as follows:

Single grained: Entirely noncoherent (each grain by itself), as in loose sand

Massive: Occurring as a coherent mass

Stubble mulch

Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind erosion and water erosion after harvest, during preparation of a seedbed for the next crop, and during the early growing period of the new crop.

Subsoil

Technically, the B horizon; roughly, the part of the solum below plow depth.

Subsoiling

Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.

Substratum

The part of the soil below the solum.

Subsurface layer

Any surface soil horizon (A, E, AB, or EB) below the surface layer.

Summer fallow

The tillage of uncropped land during the summer to control weeds and allow storage of moisture in the soil for the growth of a later crop. A practice common in semiarid regions, where annual precipitation is not enough to produce a crop every year. Summer fallow is frequently practiced before planting winter grain.

Summit

The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

Surface layer

The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the “plow layer,” or the “Ap horizon.”

Surface soil

The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

Talus

Rock fragments of any size or shape (commonly coarse and angular) derived from and lying at the base of a cliff or very steep rock slope. The accumulated mass of such loose broken rock formed chiefly by falling, rolling, or sliding.

Taxadjuncts

Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.

Terminal moraine

An end moraine that marks the farthest advance of a glacier. It typically has the form of a massive arcuate or concentric ridge, or complex of ridges, and is underlain by till and other types of drift.

Terrace (conservation)

An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.

Terrace (geomorphology)

A steplike surface, bordering a valley floor or shoreline, that represents the former position of a flood plain, lake, or seashore. The term is usually applied both to the relatively flat summit surface (tread) that was cut or built by stream or wave action and to the steeper descending slope (scarp or riser) that has graded to a lower base level of erosion.

Terracettes

Small, irregular steplike forms on steep hillslopes, especially in pasture, formed by creep or erosion of surficial materials that may be induced or enhanced by trampling of livestock, such as sheep or cattle.

Texture, soil

The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay,* and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying “coarse,” “fine,” or “very fine.”

Thin layer

Otherwise suitable soil material that is too thin for the specified use.

Till

Dominantly unsorted and nonstratified drift, generally unconsolidated and deposited directly by a glacier without subsequent reworking by meltwater, and consisting of a heterogeneous mixture of clay, silt, sand, gravel, stones, and boulders; rock fragments of various lithologies are embedded within a finer matrix that can range from clay to sandy loam.

Till plain

An extensive area of level to gently undulating soils underlain predominantly by till and bounded at the distal end by subordinate recessional or end moraines.

Tilth, soil

The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

Toeslope

The gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

Topsoil

The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

Trace elements

Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.

Tread

The flat to gently sloping, topmost, laterally extensive slope of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural steplike landforms, such as successive stream terraces.

Tuff

A generic term for any consolidated or cemented deposit that is 50 percent or more volcanic ash.

Upland

An informal, general term for the higher ground of a region, in contrast with a low-lying adjacent area, such as a valley or plain, or for land at a higher elevation than the flood plain or low stream terrace; land above the footslope zone of the hillslope continuum.

Valley fill

The unconsolidated sediment deposited by any agent (water, wind, ice, or mass wasting) so as to fill or partly fill a valley.

Variegation

Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.

Varve

A sedimentary layer or a lamina or sequence of laminae deposited in a body of still water within a year. Specifically, a thin pair of graded glaciolacustrine layers seasonally deposited, usually by meltwater streams, in a glacial lake or other body of still water in front of a glacier.

Very stony spot (map symbol)

A spot where 0.1 to 3.0 percent of the soil surface is covered by rock fragments that are more than 10 inches in diameter in areas where the surface of the surrounding soil is covered by less than 0.01 percent stones.

Water bars

Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

Weathering

All physical disintegration, chemical decomposition, and biologically induced changes in rocks or other deposits at or near the earth's surface by atmospheric or biologic agents or by circulating surface waters but involving essentially no transport of the altered material.

Well graded

Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

Wet spot (map symbol)

A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit.

Wilting point (or permanent wilting point)

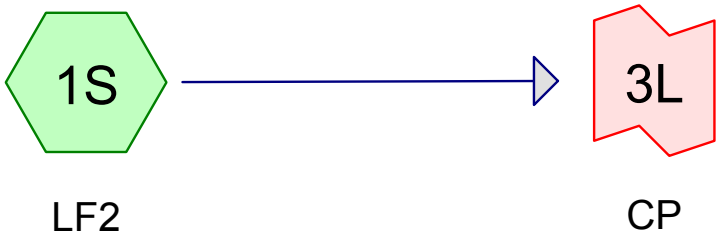
The moisture content of soil, on an ovendry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

Windthrow

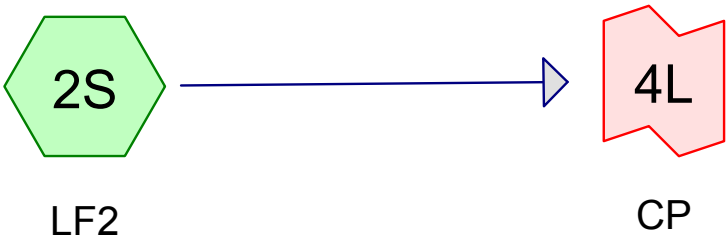
The uprooting and tipping over of trees by the wind.

Written by:	**P. Tu/ T. Walter**	Date:	**11/19/2015**	Reviewed by:	**R. Bourdeau**	Date:	**11/30/2015**
Client:	**Mallinckrodt**	Project:	**Orrington Remediation Site**	Project/ Proposal No.:	**BR0292**	Task No.:	**11/02**

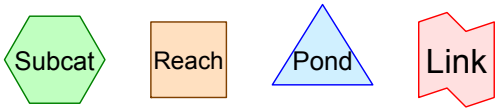
Attachment B
HydroCAD Simulation Results



Pre-Remediation Condition



Post-Remediation Condition



Routing Diagram for LF2
Prepared by {enter your company name here}, Printed 11/23/2015
HydroCAD® 10.00 s/n 03895 © 2012 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.275	89	Low pervious (dirt road) - HSG D (1S, 2S)
1.148	71	Meadow - HSG C (2S)
0.643	78	Meadow - HSG D (1S)
0.023	82	Woods - HSG C (1S)
0.482	86	Woods - HSG D (1S)
2.571	**78**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
1.171	HSG C	1S, 2S
1.400	HSG D	1S, 2S
0.000	Other	
2.571		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.275	0.000	0.275	Low pervious (dirt road) -	1S, 2S
0.000	0.000	1.148	0.643	0.000	1.791	Meadow -	1S, 2S
0.000	0.000	0.023	0.482	0.000	0.505	Woods -	1S
0.000	**0.000**	**1.171**	**1.400**	**0.000**	**2.571**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>1.10"
Flow Length=445' Tc=14.4 min CN=82 Runoff=1.35 cfs 0.118 af

Subcatchment 2S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>0.64"
Flow Length=585' Tc=17.0 min CN=73 Runoff=0.68 cfs 0.069 af

Link 3L: CP Inflow=1.35 cfs 0.118 af
Primary=1.35 cfs 0.118 af

Link 4L: CP Inflow=0.68 cfs 0.069 af
Primary=0.68 cfs 0.069 af

Total Runoff Area = 2.571 ac Runoff Volume = 0.186 af Average Runoff Depth = 0.87"
100.00% Pervious = 2.571 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: LF2

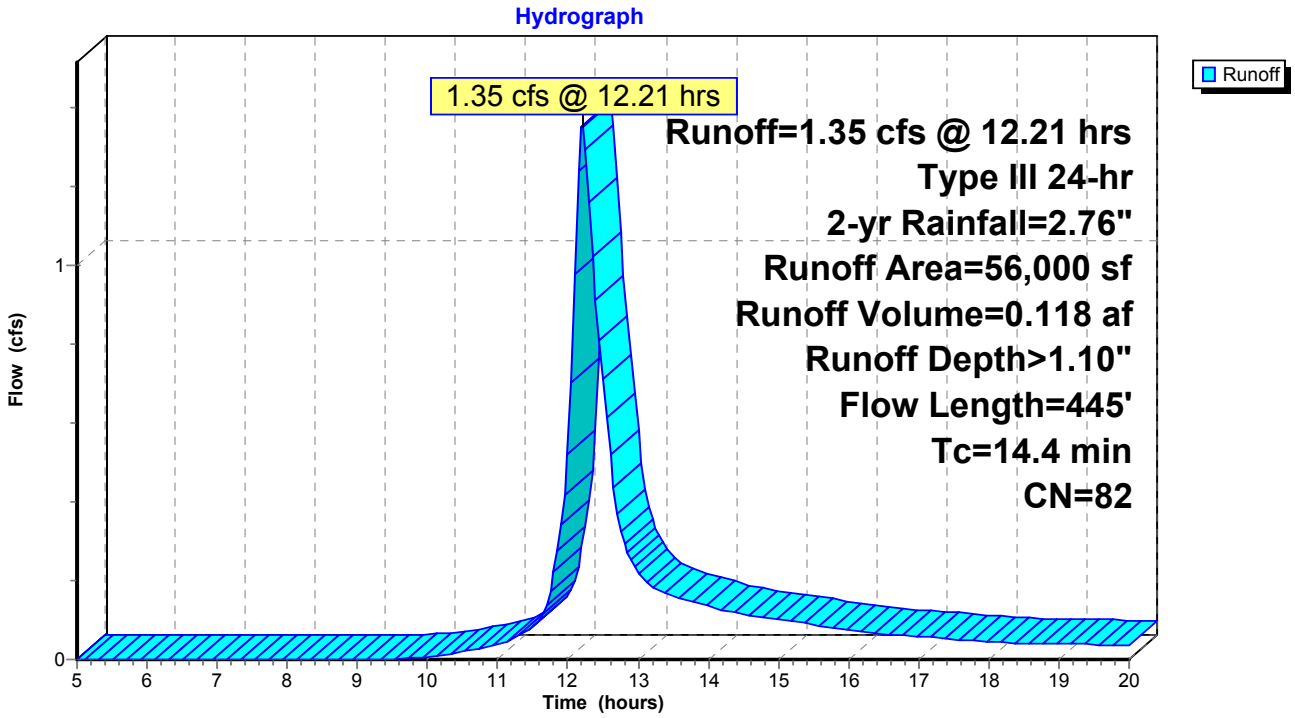
Runoff = 1.35 cfs @ 12.21 hrs, Volume= 0.118 af, Depth> 1.10"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.76"

	Area (sf)	CN	Description
*	28,000	78	Meadow - HSG D
*	1,000	82	Woods - HSG C
*	21,000	86	Woods - HSG D
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	82	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	100	0.1600	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
4.0	170	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
5.8	175	0.0100	0.50		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
14.4	445	Total			

Subcatchment 1S: LF2



Summary for Subcatchment 2S: LF2

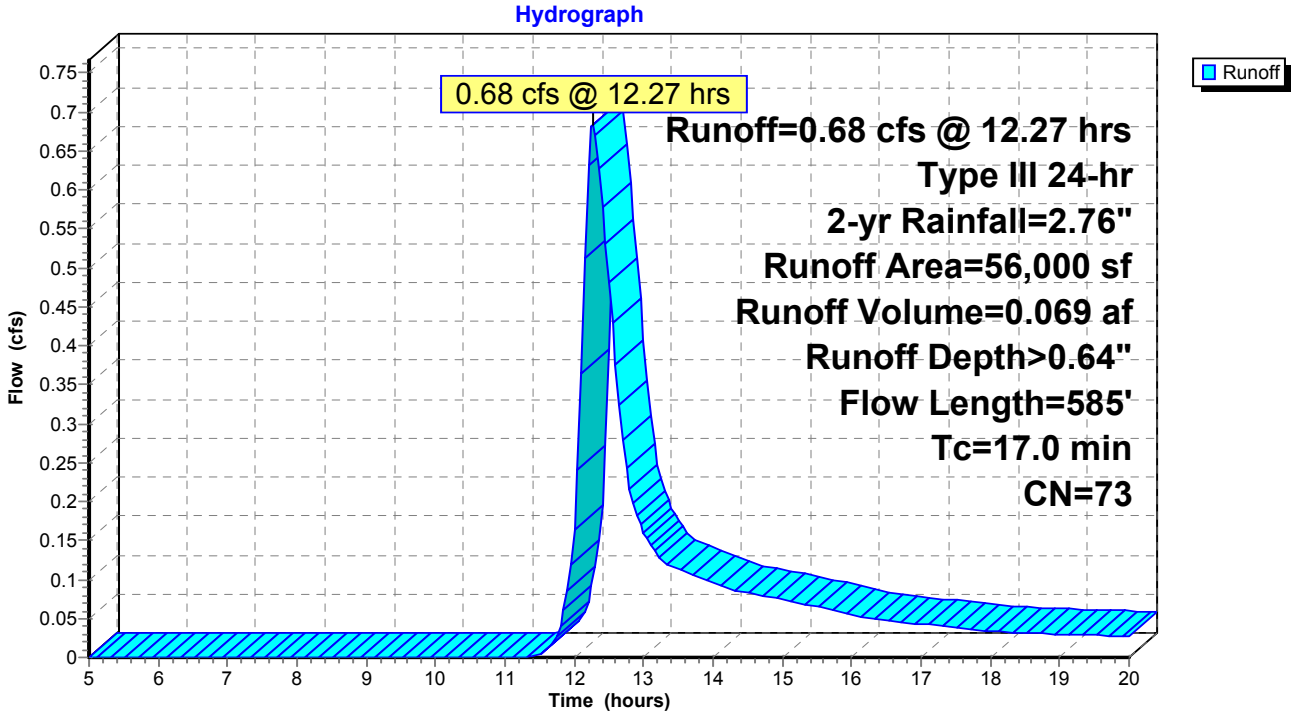
Runoff = 0.68 cfs @ 12.27 hrs, Volume= 0.069 af, Depth> 0.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.76"

	Area (sf)	CN	Description
*	28,000	71	Meadow - HSG C
*	1,000	71	Meadow - HSG C
*	21,000	71	Meadow - HSG C
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	73	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.1000	0.30		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
11.5	485	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.0	585	Total			

Subcatchment 2S: LF2

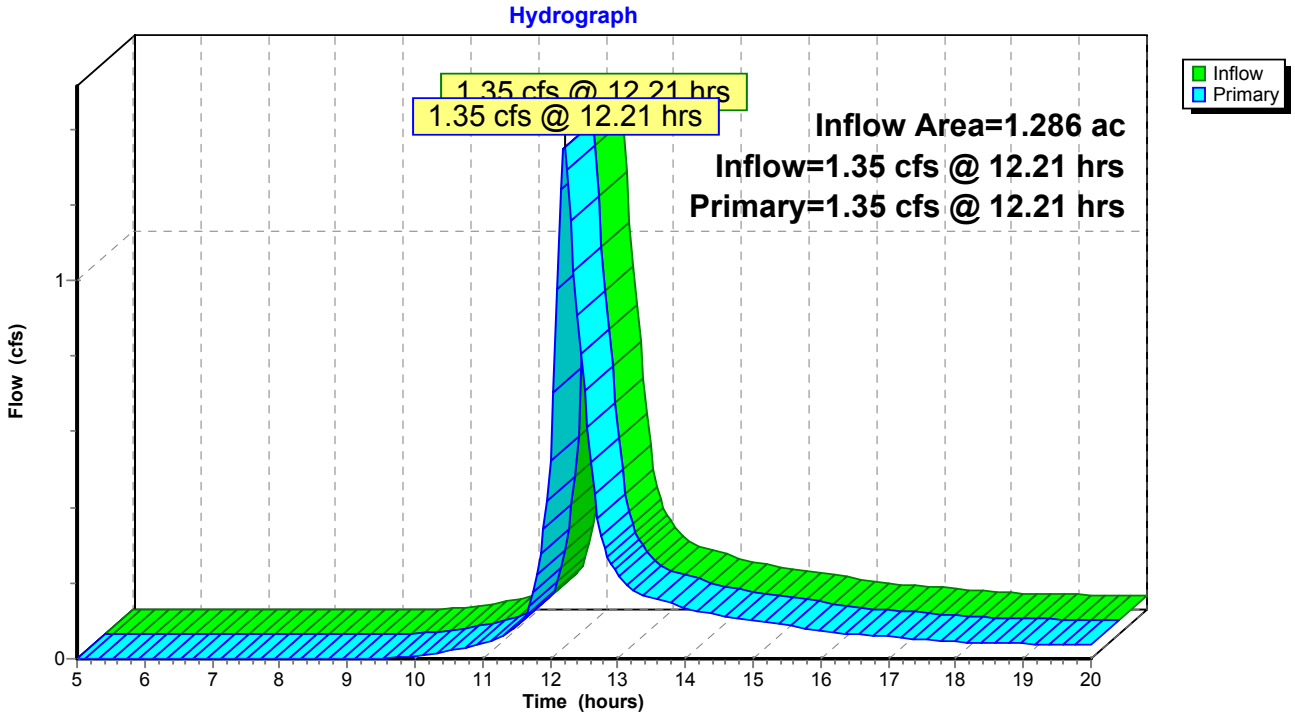


Summary for Link 3L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 1.10" for 2-yr event
Inflow = 1.35 cfs @ 12.21 hrs, Volume= 0.118 af
Primary = 1.35 cfs @ 12.21 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 3L: CP

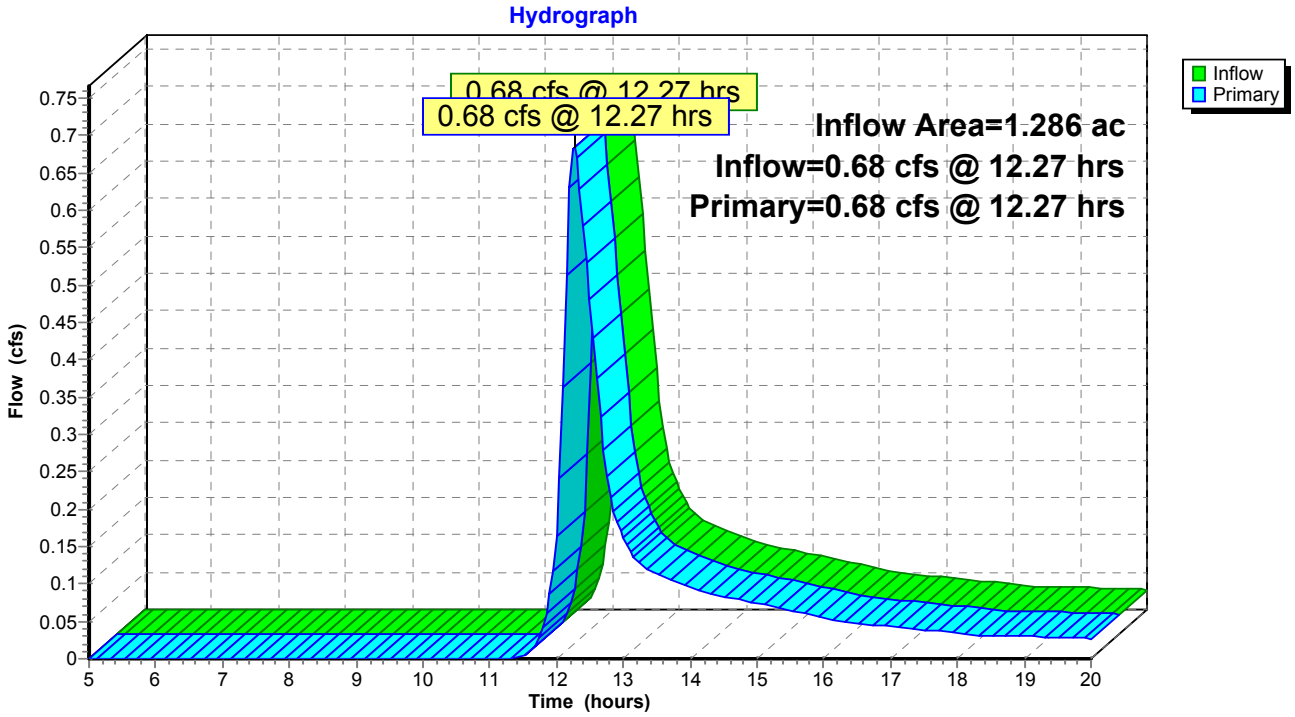


Summary for Link 4L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 0.64" for 2-yr event
Inflow = 0.68 cfs @ 12.27 hrs, Volume= 0.069 af
Primary = 0.68 cfs @ 12.27 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 4L: CP



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>2.10"
Flow Length=445' Tc=14.4 min CN=82 Runoff=2.60 cfs 0.225 af

Subcatchment 2S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>1.44"
Flow Length=585' Tc=17.0 min CN=73 Runoff=1.65 cfs 0.154 af

Link 3L: CP Inflow=2.60 cfs 0.225 af
Primary=2.60 cfs 0.225 af

Link 4L: CP Inflow=1.65 cfs 0.154 af
Primary=1.65 cfs 0.154 af

Total Runoff Area = 2.571 ac Runoff Volume = 0.379 af Average Runoff Depth = 1.77"
100.00% Pervious = 2.571 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: LF2

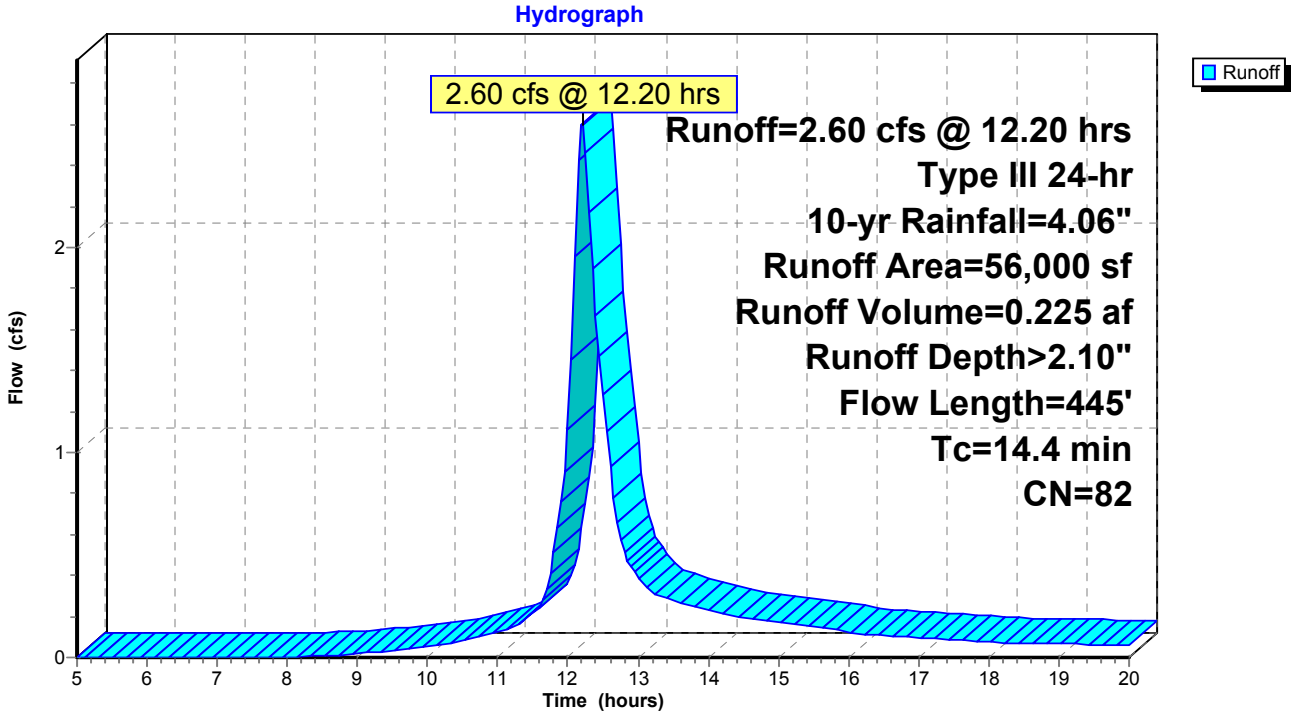
Runoff = 2.60 cfs @ 12.20 hrs, Volume= 0.225 af, Depth> 2.10"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.06"

	Area (sf)	CN	Description
*	28,000	78	Meadow - HSG D
*	1,000	82	Woods - HSG C
*	21,000	86	Woods - HSG D
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	82	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	100	0.1600	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
4.0	170	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
5.8	175	0.0100	0.50		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
14.4	445	Total			

Subcatchment 1S: LF2



Summary for Subcatchment 2S: LF2

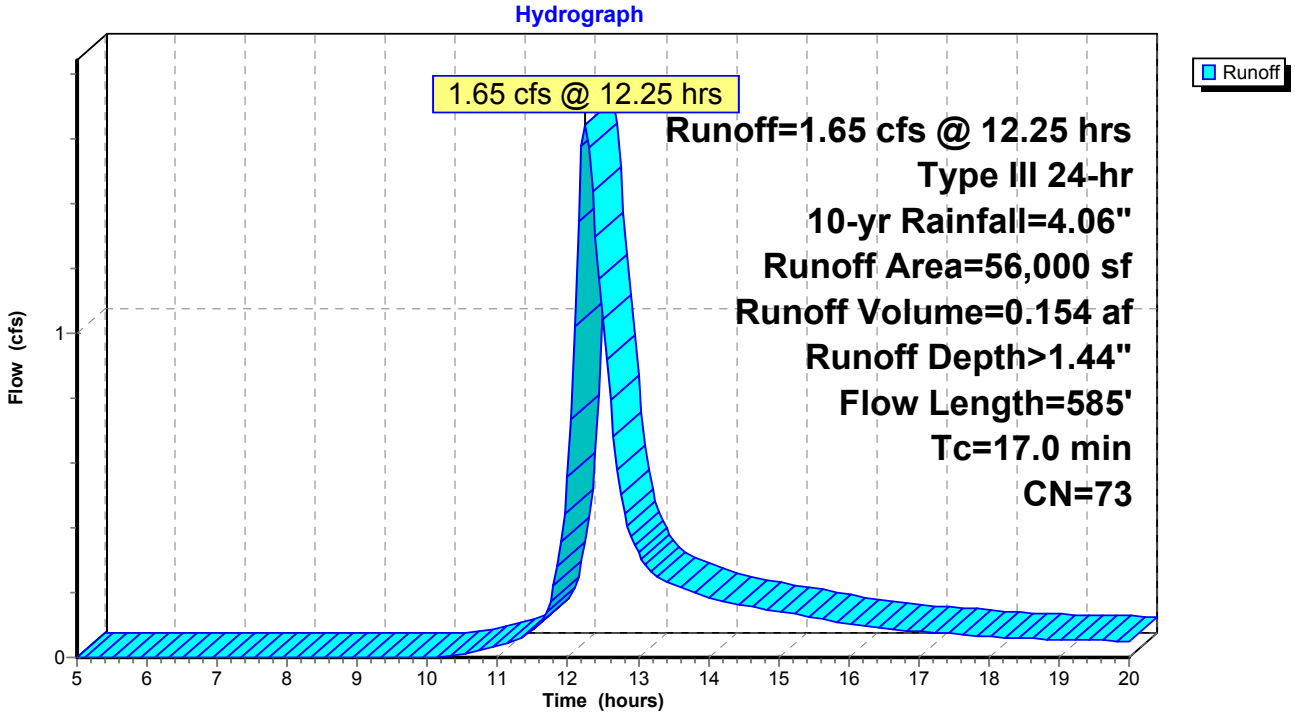
Runoff = 1.65 cfs @ 12.25 hrs, Volume= 0.154 af, Depth> 1.44"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.06"

	Area (sf)	CN	Description
*	28,000	71	Meadow - HSG C
*	1,000	71	Meadow - HSG C
*	21,000	71	Meadow - HSG C
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	73	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.1000	0.30		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
11.5	485	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.0	585	Total			

Subcatchment 2S: LF2

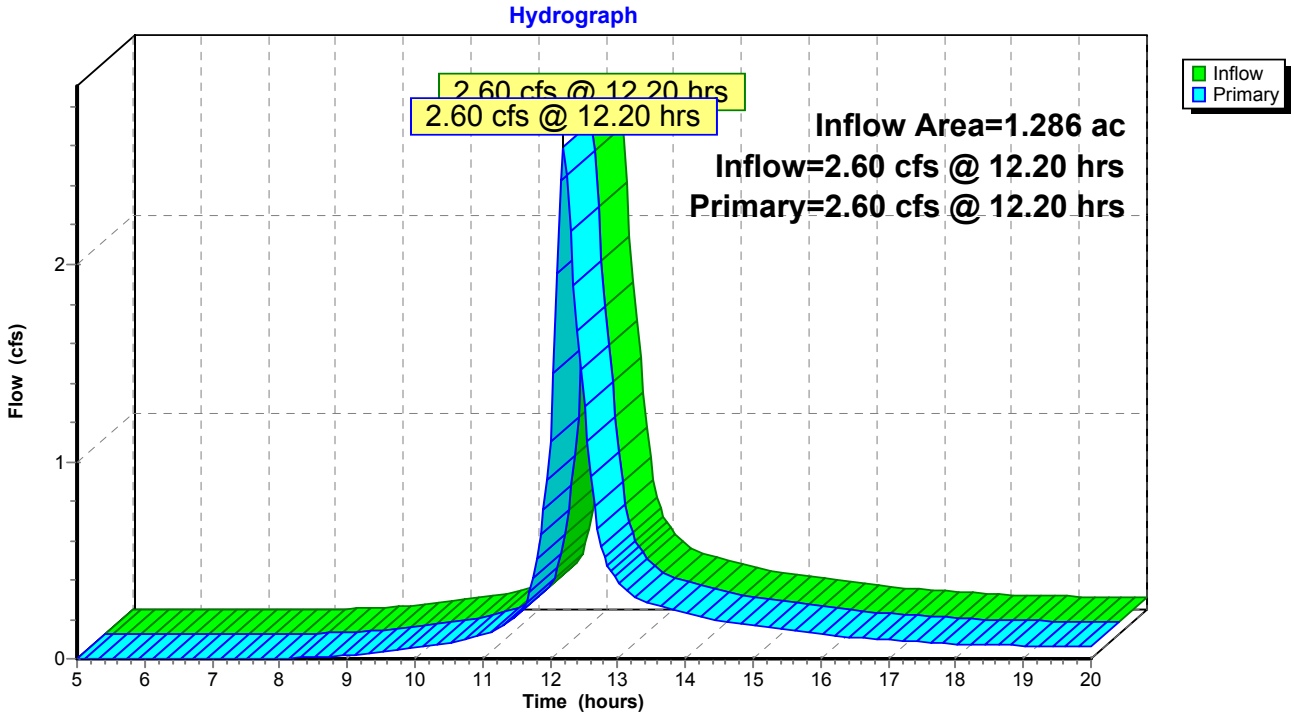


Summary for Link 3L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 2.10" for 10-yr event
Inflow = 2.60 cfs @ 12.20 hrs, Volume= 0.225 af
Primary = 2.60 cfs @ 12.20 hrs, Volume= 0.225 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 3L: CP

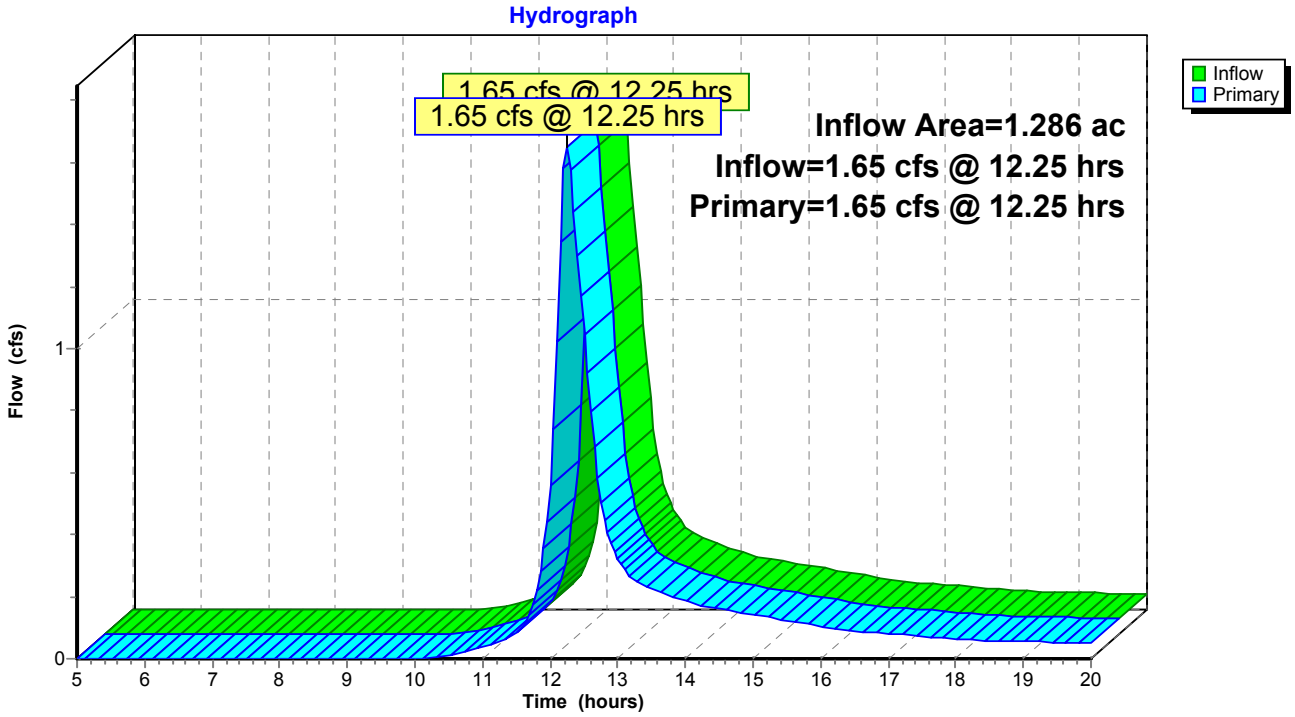


Summary for Link 4L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 1.44" for 10-yr event
Inflow = 1.65 cfs @ 12.25 hrs, Volume= 0.154 af
Primary = 1.65 cfs @ 12.25 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 4L: CP



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>2.93"
Flow Length=445' Tc=14.4 min CN=82 Runoff=3.60 cfs 0.314 af

Subcatchment 2S: LF2 Runoff Area=56,000 sf 0.00% Impervious Runoff Depth>2.15"
Flow Length=585' Tc=17.0 min CN=73 Runoff=2.49 cfs 0.230 af

Link 3L: CP Inflow=3.60 cfs 0.314 af
Primary=3.60 cfs 0.314 af

Link 4L: CP Inflow=2.49 cfs 0.230 af
Primary=2.49 cfs 0.230 af

Total Runoff Area = 2.571 ac Runoff Volume = 0.543 af Average Runoff Depth = 2.54"
100.00% Pervious = 2.571 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: LF2

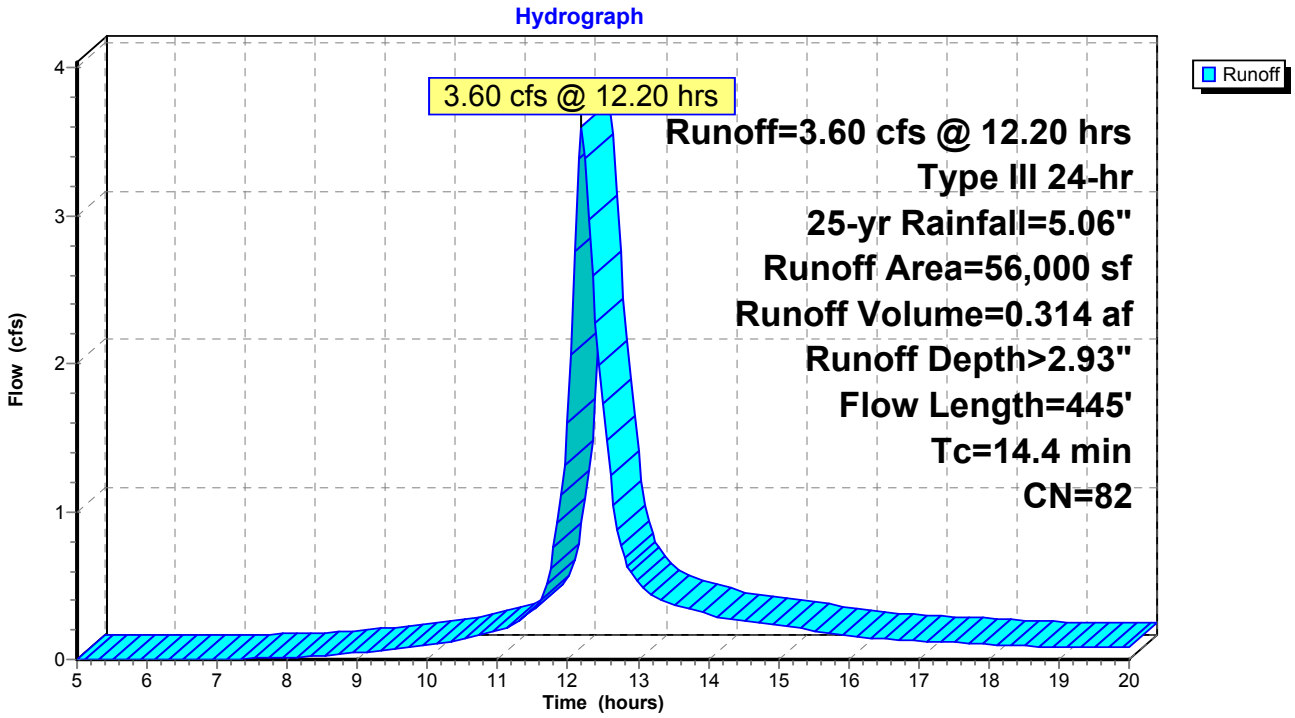
Runoff = 3.60 cfs @ 12.20 hrs, Volume= 0.314 af, Depth> 2.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.06"

	Area (sf)	CN	Description
*	28,000	78	Meadow - HSG D
*	1,000	82	Woods - HSG C
*	21,000	86	Woods - HSG D
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	82	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	100	0.1600	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
4.0	170	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
5.8	175	0.0100	0.50		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
14.4	445	Total			

Subcatchment 1S: LF2



Summary for Subcatchment 2S: LF2

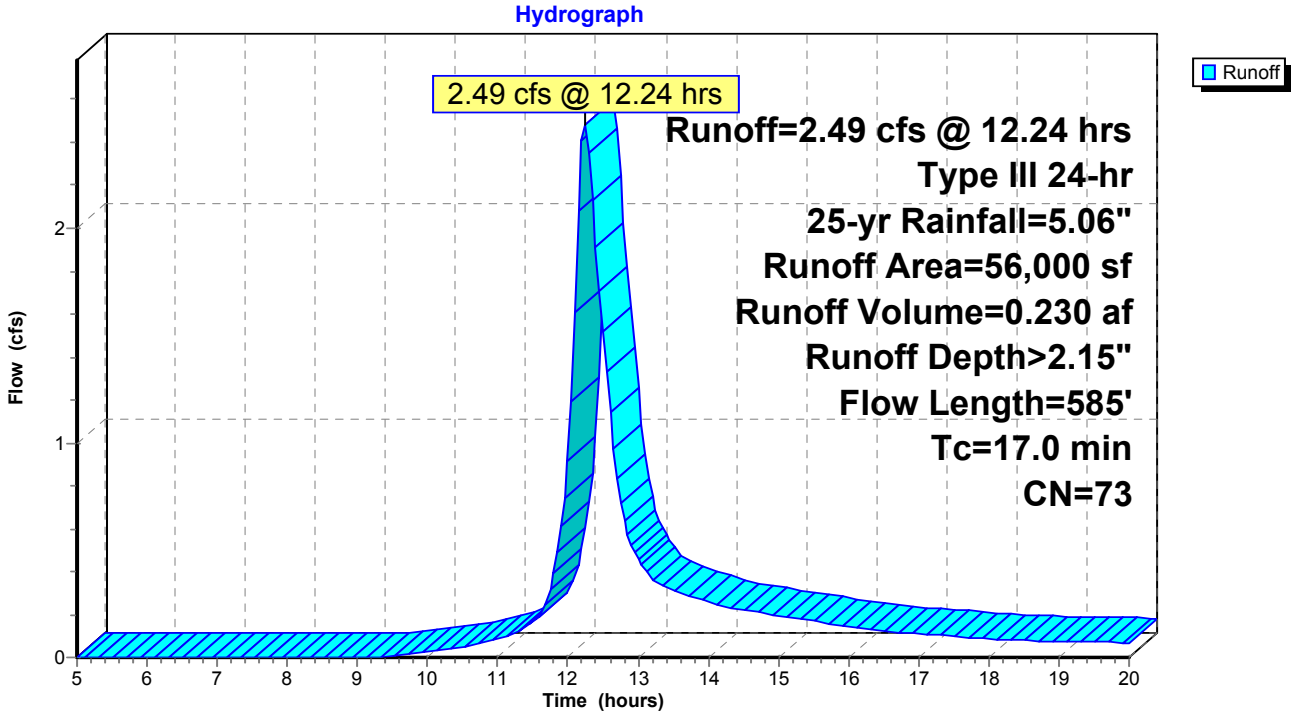
Runoff = 2.49 cfs @ 12.24 hrs, Volume= 0.230 af, Depth> 2.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.06"

	Area (sf)	CN	Description
*	28,000	71	Meadow - HSG C
*	1,000	71	Meadow - HSG C
*	21,000	71	Meadow - HSG C
*	6,000	89	Low pervious (dirt road) - HSG D
	56,000	73	Weighted Average
	56,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.1000	0.30		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.76"
11.5	485	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.0	585	Total			

Subcatchment 2S: LF2

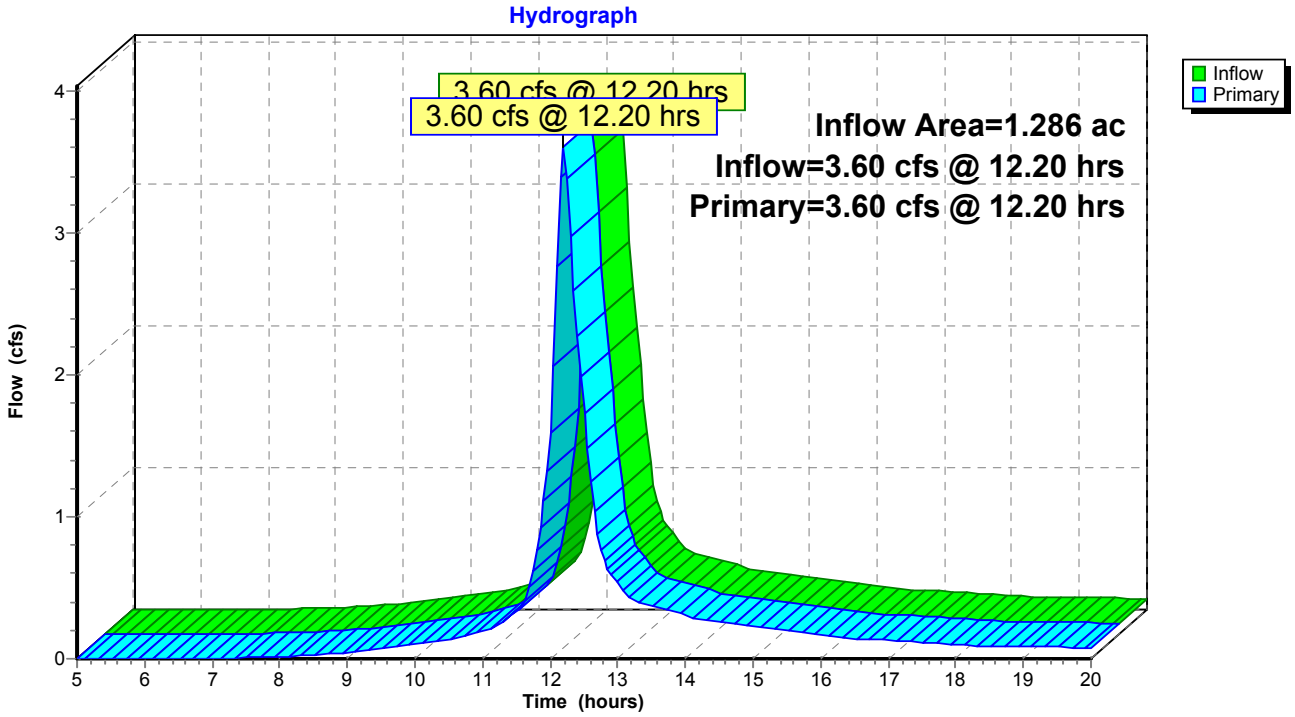


Summary for Link 3L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 2.93" for 25-yr event
Inflow = 3.60 cfs @ 12.20 hrs, Volume= 0.314 af
Primary = 3.60 cfs @ 12.20 hrs, Volume= 0.314 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 3L: CP

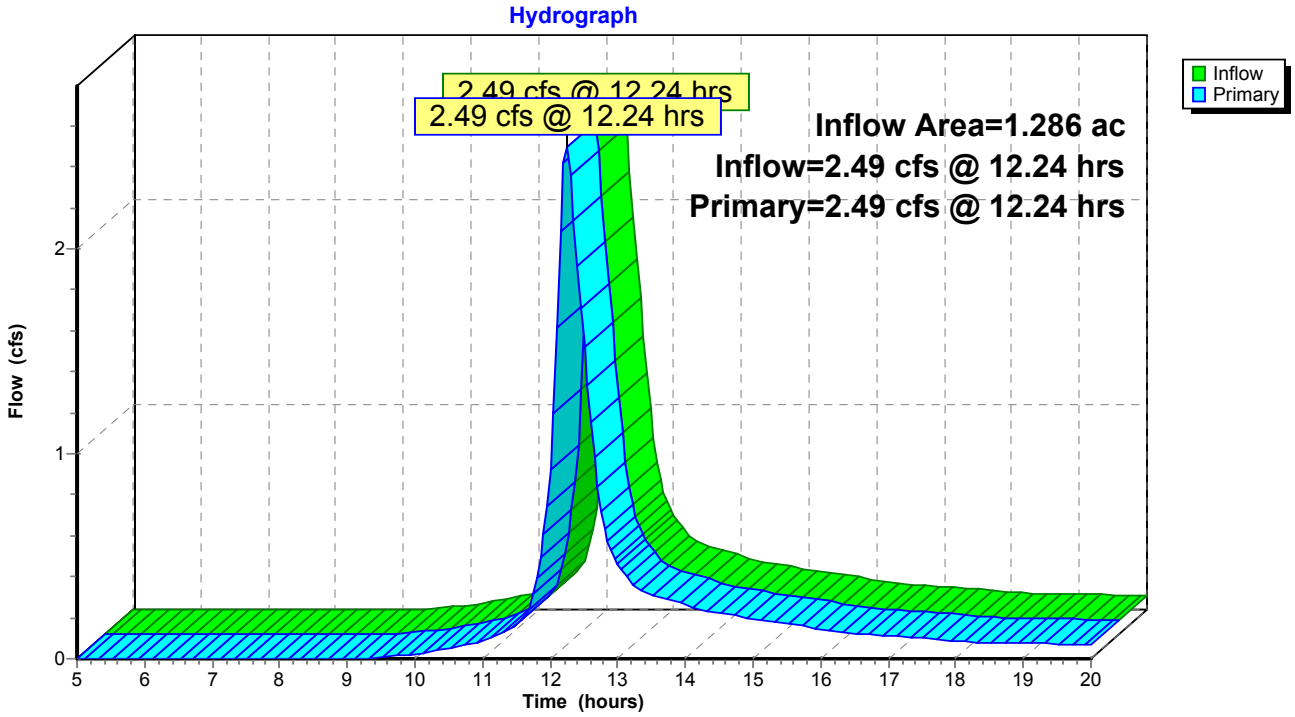


Summary for Link 4L: CP

Inflow Area = 1.286 ac, 0.00% Impervious, Inflow Depth > 2.15" for 25-yr event
Inflow = 2.49 cfs @ 12.24 hrs, Volume= 0.230 af
Primary = 2.49 cfs @ 12.24 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Link 4L: CP



APPENDIX J

Soil Use Plan

DRAFT

Soil Use Plan

Orrington Remediation Site

Orrington, Maine

Prepared by:

CDM Smith
25 Industrial Ave.
Chelmsford, MA 01824

Geosyntec Consultants, Inc.
289 Great Road, Suite 105
Acton, MA 01720

Mallinckrodt US LLC

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Section 1.

Introduction

The purpose of this plan is to provide guidance for selecting and screening soils from off-site and on-site sources that do not exceed the Media Protection Standards (MPS) for potential use as part of the Orrington Remediation Project (Site). Physical requirements (e.g. gradation, hydraulic conductivity, strength, etc.) of the materials to be used as part of the remediation activities are presented in the respective specifications from the CMI Plans.

Soils and materials that exceed the MPS will not be imported for use, and on-site soils exceeding the MPS will be sent off-site for disposal and are not proposed for reuse on-site. Therefore the soils discussed in this plan are not subject to the 06-096 Code of Maine Regulations Chapter 400, Section 1, Nnn which governs contaminated soils from remediation sites that are considered special wastes. The Maine DEP guidance document *Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances* (which provides guidance for various soil exposure pathways), will be used for establishing criteria for parameters in which Contaminant of Concern (COCs) do not have a defined MPS criteria.

Section 2.
Media Protection Standards

2.1 Media Protection Standards

Media Protection Standards have been established in the Board of Environmental Protection (BEP) Order (Order) effective April 3, 2014 which incorporates, with modifications, the Compliance Order issued by the Maine Department of Environmental Protection (DEP) dated November 24, 2008. The MPSs for COCs in soil are summarized below in **Table 2-1**.

Table 2-1. Soil Media Protection Standards - Numeric

	Soil
	(mg/kg)
Mercury	2.2
Chloropicrin	0.125
PCBs	1.0
Cadmium	8
Ethylbenzene	13
Xylene	190

NOTES:

Media Protection Standards as presented in the Order (Attachment 2)
mg/kg = milligrams per kilogram
PCBs – polychlorinated biphenyls

2.2 Potential Receptors

Potential Receptors are categorized by duration of exposure and intensity of use at the Site. The receptor categories present at the Site include the following:

Commercial Worker — Outdoor commercial workers are those which are present at the Site for longer durations but with low intensity exposure such as groundskeepers, parking lot attendants and mechanics. This category is also conservatively applied for indoor office workers at the Site.

Residential User — Residential users are characterized by continuous exposure to children and adults over thirty through childhood and into adulthood. The category applies to residences, daycares, eldercare and medical treatment facilities.

Excavation or Construction Worker — Excavation or construction workers are present at the Site for exposure periods of 6-months or less although intensity of use is high, such as during non-routine activities including construction or utility work. Examples include utility and construction contractors and landscapers.

Section 3.
Soil Use Requirements

The soil use requirements for the Site are presented below. The information includes the source of the fill, acceptance criteria for use, areas of use, and testing requirements.

3.1 On-site Soils

Two types of on-site soils are as follows:

- Type 1 on-site - Soils from within a remediation area (e.g. Landfill Ridge, Scrap Metal Yard, Plant Area, Landfill 1, etc.) that do not exceed the MPS criteria; and
- Type 2 on-site - Soils from a proposed on-site borrow source outside a remediation area.

Type 1 on-site soils shall be tested for the following:

- MPS parameters;
- VOCs (USEPA 8260);
- SVOCs (USEPA 8270);
- Metals (USEPA 6000/7000 series);
- PCBs (USEPA 8082);
- Pesticides (USEPA 8081); and
- Chlorinated Herbicides (USEPA 8151).

The testing frequency for Type 1 on-site soil shall be 1 test per 20,000 cy of material used. Test results from confirmation sampling performed as part of the predesign investigation may be used for the assessment of Type 1 on-site soils. Type 1 on-site soils can be used in any remediation area provided the chemical testing indicates parameter concentrations are less than the MPS criteria and less than the Maine RAGs Soil unrestricted use guidelines for parameters for which there is not a MPS criterion, with the exception of arsenic. Arsenic concentrations shall be in the range of background arsenic levels published in the RAGs, which are greater than the Maine RAGs Residents user guidelines. Listed waste will not be re-used on Site.

Type 2 on-site soils shall be tested for the following:

- MPS parameters;
- VOCs (USEPA 8260);
- SVOCs (USEPA 8270);
- Metals (USEPA 6000/7000 series);
- PCBs (USEPA 8082);
- Pesticides (USEPA 8081); and
- Chlorinated Herbicides (USEPA 8151).

The testing frequency for Type 2 on-site soil shall be 1 test per 2000 cy yards of material used. Type 2 soils can be used throughout the Site provided the chemical testing indicates parameter

concentrations are less than the MPS criteria and less than the Maine RAGs for unrestricted use for parameters for which there is not a MPS criterion, with the exception of arsenic. Arsenic concentrations shall be in the range of background arsenic levels published in the RAGs, which are greater than the Maine RAGs Residents user guidelines.

3.2 Off-site Soils

Soils obtained from off-site sources shall be tested for the following:

- MPS parameters;
- VOCs (USEPA 8260);
- SVOCs (USEPA 8270);
- Metals (USEPA 6000/7000 series);
- PCBs (USEPA 8082);
- Pesticides (USEPA 8081); and
- Chlorinated Herbicides (USEPA 8151).

The minimum testing frequency shall be 1 per virgin borrow pit source. Off-site soils may be used on-site provided the chemical testing indicates parameter concentrations are less than the MPS criteria and less than the Maine RAGs unrestricted use for those parameters for which there is not MPS criteria, with the exception of arsenic. Arsenic concentrations shall be in the range of background arsenic levels published in the RAGs, which are greater than the Maine RAGs Residents user guidelines.

Section 4.
References

CDM Smith, Inc, 2014b. Quality Assurance Project Plan, Revision 1, Orrington Remediation Site, Orrington, Maine, December 15, 2014.

Maine BEP, 2014. Mallinckrodt US LLC et al. v. Department of Environmental Protection. April 3, 2014.

Maine DEP, 2008. Compliance Order: Designation of Uncontrolled Hazardous Substance Site and Order in the Matter of United States Surgical Corporation, Mallinckrodt LLC Concerning a Chloralkali Manufacturing Facility in Orrington, Penobscot County, Maine Formerly Owned and Operated by Mallinckrodt Inc., Proceeding Under 38 M.R.S.A. § 1365, Uncontrolled Hazardous Substance Sites Law; November 24.

Maine DEP2013. *Remedial Action Guidelines (RAGs) for Sites Contaminated with Hazardous Substances*, 8 May 2013.

06-096 Code of Maine Regulations Chapter 400, Section 1, Nnn.