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February 29, 2016

Mr. Jason Kam
North Carolina Department of Environmental Quality
Division of Waste Management,
Inactive Hazardous Sites Branch - Superfund Section
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RE: Remedial Investigation – Media Sampling
Task Order 602DP-4
Cary Dump
313 North Dixon Avenue
Cary, Wake County, North Carolina
ID No. NONCD0000602
State Contract No. N13003S

Dear Mr. Kam:

ATC Associates of North Carolina, P.C. (ATC) is submitting this letter report in response to the Pre-Regulatory Landfill Unit's (Unit) January 21, 2016 approval referencing *Task Order 602DP-4*. This report documents collection of sediment and surface water samples from Coles Branch, field screening of above-ground landfill gas within the waste boundary, installation and sampling temporary monitoring wells, and waste boundary delineation. The work was performed in accordance with ATC's Workplan and Cost Proposal dated August 14, 2015, and Standard Operating Procedures (SOPs) and Quality Assurance (QA) Manual dated April 17, 2013.

1.0 COLES BRANCH SAMPLING

1.1 Surface Water Sampling

On October 21, 2015, four surface water samples (SW-1 through SW-4) were collected from Coles Branch in a downstream to upstream order. The surface water sampling was conducted by directly filling the laboratory supplied sample containers. Field measurements were collected for the surface water samples, including turbidity using a Hach 2100Q turbidimeter and temperature, conductivity, and pH using a YSI 556MPS water quality meter. Field notes are included in ***Appendix A***, a site map is included as ***Figure 1***, and investigation location map is included as ***Figure 2***.

1.2 Sediment Sampling

On October 21, 2015, concurrent with surface water sampling, four sediment samples (SED-1 through SED-4) were collected from Coles Branch in a downstream to upstream order. The sediment sampling was conducted using a stainless steel hand auger that was decontaminated prior to use and in between sampling locations. Field notes are included in ***Appendix A*** and an investigation location map is included as ***Figure 2***.

1.3 Surface Water and Sediment Laboratory Analyses

The surface water and sediment samples were submitted to a North Carolina certified laboratory for analysis of volatile organic compounds (VOCs) by SW-846 Method 8260B, 1,4-dioxane by Method 8260 Selected Ion Monitoring (SIM), semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D, inorganic hazardous substances by SW-846 Method 6020 (antimony, arsenic, beryllium, cadmium, chromium, copper, iron, lead, manganese, nickel, selenium, silver, thallium, and zinc), mercury by SW-846 Method 7470A, ammonia and nitrate by SM 4500, and sulfate by Method ASTM D516. For quality assurance/quality control (QA/QC), one duplicate sample was collected for each media for analysis of all parameters, and an equipment rinsate blank was collected from the hand auger used during sediment sampling for analysis of all parameters. Laboratory analytical reports are included in ***Appendix B***. Field parameters are summarized in ***Table 1***, surface water laboratory analytical results are summarized in ***Table 2,*** and sediment laboratory analytical results are summarized in ***Table 3.*** Refer to Section 6.0 for a discussion of laboratory analytical results.

2.0 SURFACE VAPOR SURVEY

2.1 Surface Vapor Survey

On October 23, 2015, ATC conducted a surface vapor survey at 46 locations (SV-01 through SV-46). The spacing of the locations was on an approximate 50-foot grid within the waste disposal area. The field measurements were collected approximately 3 inches above the ground and their approximate locations were based on the subsurface waste boundaries depicted on the attached ***Figure 1***. Survey locations are presented on the attached ***Figure 3***. To perform the testing, ATC used a GEM 2000+ (GEM), MiniRAE photoionization detector (PID), and hygrometer to measure target landfill gases. Landfill gas measurements collected from each location include methane, oxygen, carbon dioxide, temperature, humidity, barometric pressure, hydrogen sulfide, and VOCs.

Prior to conducting the surface vapor survey, ATC calibrated each instrument in the field per the manufacturer's specifications and conducted bump tests before, periodically during, and after the landfill gas survey to insure proper calibration. Calibration procedures were documented in the field as well as information detailing the equipment manufacturer, model number, serial number, date of factory calibration and maintenance, set up parameters, measurement units, detection limits, and types of calibration gas. In addition, field logs were kept that included the name of the person conducting the evaluation, a description of weather conditions, and alternate forms of cross-contamination, as well as hourly ambient temperature, humidity, and barometric pressure

readings. Note that the survey was conducted under dry and calm weather conditions. Landfill surface vapor survey data are summarized in ***Table 4*** and the field logs, field notes, and instrument calibration logs are included in ***Appendix A***.

3.0 WASTE DISPOSAL BOUNDARY DELINEATION

3.1 Soil Boring Advancement

From October 19 22, 2015, a total of 25 soil borings were advanced at the site. Soil boring locations and the waste disposal boundary are depicted on ***Figure 2***. The borings were advanced at locations based on the July 2014 geophysical assessment and the February 2015 waste boundary delineation event. The first 5 feet of each boring was advanced using a hand auger in order to avoid potential unmarked utility lines. Below a depth of 5 feet below ground surface (bgs), solid-stem auger drilling techniques were utilized and auger cuttings were observed to determine waste presence, depth, and thickness. Borings were advanced to 10 feet bgs, or until waste thickness was determined or refusal was encountered. Lithologic descriptions, waste depth and thickness, and field readings for methane and VOCs were recorded and are shown in the field notes in ***Appendix A***. Soil cover and waste thickness data were also collected and are included in ***Table 5***. Following the conclusion of sampling activities, the soil borings were abandoned in accordance with investigative derived waste (IDW) methods specified in *Task Order 0602DP-3* and ATC's Workplan and Cost Proposal.

4.0 TEMPORARY MONITORING WELL INSTALLATION AND SAMPLING

4.1 Temporary Groundwater Monitoring Well Installation

On October 19 and 20, 2015, temporary monitoring wells TMW-1, TMW-2, and TMW-4 were installed by a North Carolina licensed driller under supervision by ATC personnel. Note that multiple attempts were made to install a fourth temporary monitoring well (TMW-3), however, shallow refusal depths impeded the installation. The installed monitoring well boreholes were advanced to refusal at depths ranging from approximately 6 to 22 feet bgs. The first 5 feet of each boring was advanced using a hand auger in order to avoid potential unmarked utility lines. The remainder of each boring was advanced using solid-stem auger and/or direct-push drilling techniques. The temporary monitoring wells were constructed using 1-inch diameter PVC solid riser and 3 to 10 feet of 0.010-inch machine slotted pre-packed well screen. Following installation, multiple attempts were made to develop the temporary monitoring wells with dedicated high density polyethylene (HDPE) tubing and a stainless steel foot valve. However, due to an insufficient volume of groundwater in each well, development was unsuccessful.

The three installed temporary monitoring wells were abandoned on October 22, 2015 following collection of groundwater samples from TMW-2, the details of which are included in Section 4.3. Temporary well construction details are summarized in ***Table 6,*** lithologic descriptions are summarized in ***Table 5,*** and soil boring logs are included in ***Appendix C.*** The temporary monitoring well locations are shown on ***Figure 2***.

4.2 Groundwater Elevation Survey

Following installation, ATC attempted to collect depth to groundwater data from the three newly installed temporary wells. At the time of the survey, approximately 0.1 feet of free product was detected in temporary monitoring well TMW-1. In addition, as noted in the previous section, groundwater was not detected in temporary monitoring well TWM-4. Therefore, top of casing elevation data were not collected and a groundwater elevation survey was not completed. Depth to groundwater data are summarized in ***Table 6***.

4.3 Groundwater Sampling and Analysis

Due to a limited amount of groundwater, samples were collected from temporary monitoring well TMW-2 on both October 21s and 22, 2015. Standard low-flow sampling methods and procedures also were not able to be followed prior to sampling due to a limited amount of groundwater. To complete the sampling, sample containers were directly filled via a peristaltic pump and Teflon® tubing. Note that due to the free product encountered in temporary monitoring well TMW-1, samples were not collected for laboratory analysis.

The groundwater samples from TMW-2 were submitted to a North Carolina certified laboratory for analysis of VOCs by SW-846 Method 8260B, 1,4-dioxane by Method 8260 SIM, SVOCs by SW-846 Method 8270D, inorganic hazardous substances by SW-846 Method 6020, mercury by SW-846 Method 7470A, ammonia and nitrate by SM 4500, and sulfate by ASTM D516. Due to the limited volume of groundwater present in TMW-2 a duplicate sample was not collected for QA/QC. A trip blank was included in the sample shipment for analysis of VOCs and an equipment rinsate sample was collected from the interface probe for analysis of all parameters. Field notes, instrument calibration logs, and groundwater field data sheets are included in ***Appendices A*** and ***C***, laboratory analytical reports are included in ***Appendix B***, field parameters are summarized in ***Table 1,*** and groundwater laboratory analytical results are summarized in ***Table 7.*** Refer to Section 6.0 for a discussion of laboratory analytical results.

5.0 LABORATORY QUALITY ASSURANCE DATA REVIEW

As part of ATC's quality assurance measures, a data review of the laboratory reports was conducted. During the review, it was found that the samples were received from the laboratory in acceptable condition and properly preserved. All samples were analyzed within correct holding times and reported within the lab report, and the chain of custody was properly completed by all parties. The quality control (QC) report shows that an internal blank was analyzed for each method that was used for the original samples. Matrix Spike (MS) and/or Laboratory Control Sample (LCS) data results were provided for each soil and water analytical method. Note that certain samples were analyzed at dilutions ranging from 1 to 5 due to the presence of highly concentrated analytes. Refer to the laboratory reports in ***Appendix B*** for details regarding QC results for the laboratory samples and any noted exceptions. Overall, ATC concludes that the laboratory results are usable and any exceptions do not significantly impact the conclusions presented in this report.

6.0 LABORATORY ANALYTICAL RESULTS

6.1 Surface Water Laboratory Analytical Results

The results of the surface water sampling of SW-1 through SW-4 indicate that concentrations of target compounds were identified above the Title 15A NCAC 2B Surface Water Standards (2B Standards) for Class C waters. Constituents detected above their respective 2B Standards include iron and manganese. Other constituents were detected above laboratory detection limits, but concentrations were below 2B Standards. Surface water laboratory analytical results are summarized in ***Table 2*** and exceedences of 2B Standards are depicted on ***Figure 4.***

6.2 Sediment Laboratory Analytical Results

The results of the sediment sampling indicated concentrations of target compounds above the Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs) in samples collected from SED-1 through SED-4. Constituents detected above the lowest applicable PSRGs include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, arsenic, iron, and manganese. Total chromium was also detected at concentrations above the PSRG designated for hexavalent chromium (Cr[VI]); however, analysis for Cr[VI] was not performed. Other constituents were detected in the samples above laboratory detection limits, but concentrations were below the lowest applicable PSRGs. Sediment and rinsate blank laboratory analytical results are summarized in ***Tables 3*** and ***8***, respectively, and exceedances of PSRGs in sediment are depicted on ***Figure 4***.

6.3 Temporary Monitoring Well Laboratory Analytical Results

The results of the groundwater sampling indicated concentrations of target compounds above Title 15A NCAC 2L Groundwater Standards (2L Standards) in the sample collected from temporary monitoring well TMW-2. Constituents detected above 2L Standards include ammonia, iron, and manganese. Other constituents were detected above laboratory detection limits, but concentrations were below 2L Standards. Groundwater and rinsate blank laboratory analytical results are summarized in ***Tables 7*** and ***8***, respectively, and exceedances of 2L Standards in groundwater are depicted on ***Figure 5***.

7.0 SOLE USE STATEMENT

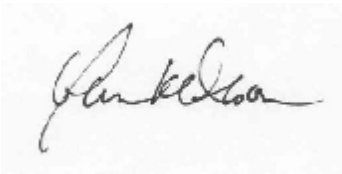
This report, in accordance with the North Carolina Department of Environmental Quality Unit's January 21, 2016 approval referencing *Task Order 602DP-4* and ATC's proposal dated August 14, 2015, is intended solely for the use of the Unit.

8.0 CERTIFICATION

The report certification for *Task Order 602DP-4* is included in ***Appendix D***.

If you have questions or require additional information, please do not hesitate to contact Justin Ballard or Genna Olson at (919) 871-0999.

Sincerely,
ATC Associates of North Carolina, P.C.



Justin C. Ballard, P.G.
Project Manager

Genna K. Olson, P.G.
Program Manager

Attachments:

Table 1 – Field Parameter Data
Table 2 – Surface Water Analytical Data
Table 3 – Sediment Analytical Data
Table 4 – Surface Vapor Survey Data
Table 5 – Soil Cover and Waste Thickness Data
Table 6 – Temporary Monitoring Well Construction Details
Table 7 – Groundwater Analytical Data
Table 8 – Rinsate Analytical Data

Figure 1 – Site Map
Figure 2 – Investigation Location Map
Figure 3 – Surface Vapor Survey Map
Figure 4 – Sediment / Surface Water Exceedances Map
Figure 5 – Groundwater Exceedances Map

Appendix A – Field Notes, Instrument Calibration Logs, and Data Sheets
Appendix B – Laboratory Analytical Reports
Appendix C – Field Boring Logs
Appendix D – Certification

TABLES

TABLE 1

FIELD PARAMETER DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Parameter	SW-1	SW-2	SW-3	SW-4	*TMW-1	**TMW-2	TMW-4
Date Measured	10/21/2015	10/21/2015	10/21/2015	10/21/2015	NM	10/27/2015	Dry
pH	9.29	9.07	9.11	8.50	NM	8.40	Dry
Temperature (°C)	16.55	12.16	13.19	10.77	NM	20.32	Dry
Specific Conductivity (mS/cm)	0.228	0.299	0.301	0.612	NM	1.39	Dry
Turbidity (NTUs)	7.66	9.35	3.18	6.21	NM	59.40	Dry

Notes:
1.) °C = Degrees Celsius.
2.) mS/cm = Millisiemens per Centimeter.
3.) NTU = Nephelometric Turbidity Units.
4.) NM = Not Measured.
5.) * = No parameters collected from TMW-1 due to the presence of free product.
6.) ** = Parameters collected from TMW-2 reflect an initial reading only due to an insufficient amount of groundwater.

TABLE 2

SURFACE WATER ANALYTICAL DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

PARAMETER	NC 2B STANDARD	SW-1	SW-2	SW-3	SW-4	SW-4 (Duplicate)
SAMPLE DATE		10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015
VOLATILE ORGANIC COMPOUNDS (VOCs) in mg/L						
Bromodichloromethane	0.017	0.00054	BDL	BDL	BDL	BDL
Chlorodibromomethane	0.013	0.00055	BDL	BDL	BDL	BDL
Chloroform	0.17	0.00028	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	0.47	BDL	BDL	BDL	0.00018	BDL
Styrene	NL	0.00018	BDL	BDL	BDL	BDL
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) in mg/L						
Isophorone	0.96	BDL	0.0038B	0.0041B	0.0035B	BDL
METALS in mg/L						
Arsenic	0.01	0.00095	0.0009	0.00095	0.0011	0.00083
Copper	0.007	0.0019	0.00096	0.002	0.0035	0.0032
Iron	1.0	**1.4**	**1.1**	0.39	**1.0**	**1.0**
Lead	0.025	0.00051	0.00019	0.00028	0.00063	0.00042
Manganese	0.2*	0.16	0.13	0.017	**0.2**	0.19
Nickel	0.088	0.0017	0.0024	0.0023	0.0035	0.0036
Zinc	0.05	0.013	0.0075	0.0071	0.016	0.014
ADDITIONAL ANALYTES in mg/L						
Ammonia as N	NL	BDL	0.29	BDL	1.2	1.0
Nitrate as N	10*	0.31	0.23	0.43	0.53	0.54
Sulfate	250	26	9.7	6.2	10	11

Notes:
1.) NC 2B Standard = Title 15A NCAC 2B Surface Water Standard for Class C waters (May 2013), or if no NC 2B Standard established, North Carolina and EPA Criteria Table (May 2013).
2.) BDL = Below laboratory detection limits.
3.) NL = Not Listed.
4.) * = No standard listed for Class C waters, standard shown is for Class WS waters.

TABLE 3 (Page 1 of 2)

SEDIMENT ANALYTICAL DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

PARAMETER	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SED-1	SED-2	SED-3	SED-4	SED-4 (DUPLICATE)
SAMPLE DATE				10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015
VOLATILE ORGANIC COMPOUNDS (VOCs) in mg/kg								
Ethylbenzene	5.8	25	8.1	BDL	BDL	BDL	BDL	0.0021
Toluene	820	820	5.5	BDL	BDL	BDL	BDL	0.0058
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) in mg/kg								
Benzo(a)anthracene	0.16	2.9	0.18	BDL	**0.17**	BDL	**0.31**	**0.31**
Benzo(a)pyrene	0.016	0.29	0.059	BDL	**0.19**	BDL	**0.32**	**0.34**
Benzo(b)fluoranthene	0.16	2.9	0.6	BDL	**0.32**	0.091	**0.47**	**0.52**
Benzo(g,h,i)perylene	NL	NL	7800	BDL	0.15	BDL	0.22	0.24
Benzo(k)fluoranthene	1.6	29	5.9	BDL	0.13	BDL	0.19	0.19
Bis(2-Ethylhexyl)phthalate	39	160	7.2	0.2	0.34	0.19	0.2	0.2
Carbazole	NL	NL	0.37	BDL	BDL	BDL	0.058	BDL
Chrysene	16	290	18	BDL	0.24	0.077	0.42	0.44
Fluoranthene	480	6000	330	BDL	0.39	0.11	0.85	0.8
Indeno(1,2,3-cd)pyrene	0.16	2.9	2	BDL	**0.16**	BDL	**0.27**	**0.26**
Phenanthrene	NL	NL	68	BDL	0.13	BDL	0.3	0.39
Pyrene	360	4600	220	BDL	0.4	0.11	0.74	0.83
METALS in mg/Kg								
Antimony	6.2	94	0.9	0.083	0.17	0.075	0.79	0.11
Arsenic	0.68	3	5.8	**0.82**	**3.3**	**1.6**	**1.7**	**1.8**
Beryllium	32	460	63	0.19	0.38	0.18	0.16	0.23
Cadmium	14	200	3	0.064	BDL	BDL	0.1	0.16
Chromium	0.3*	6.3*	3.8*	**6.8**	**54**	**10**	**15**	**9.3**
Copper	620	9400	700	4	6.8	3	9.1	6.5
Iron	11000	100000	150	**8700**	**34000**	**13000**	**17000**	**14000**
Lead	400	800	270	9.5	8.9	6	13	**320**
Manganese	360	5200	65	61	**100**	**86**	**110**	**88**
Mercury	1.9	3.1	1	0.0088	0.024	0.0081	0.074	0.058
Nickel	300	4400	130	2.0	2.6	1.0	3.9	1.7
Silver	78	1200	3.4	BDL	BDL	BDL	0.057	BDL
Zinc	4600	70000	1200	18	32	22	51	62
ADDITIONAL ANALYTES in mg/kg								
Ammonia as N	NL	NL	NL	BDL	BDL	BDL	28	BDL
Nitrate as N	26000	100000	NL	2.3	3.9	BDL	2.5	3.0

TABLE 3 (Page 2 of 2)

SEDIMENT ANALYTICAL DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Notes:
1.) Residential PSRG = Inactive Hazardous Sites Branch (IHSB) Residential Health-Based Preliminary Soil Remediation Goals (PSRG)
2.) Industrial PSRG = IHSB Industrial Health-Based PSRG (September 2015).
3.) Protection of Groundwater PSRG = IHSB Protection of Groundwater PSRG (September 2015).
4.) Values reported in mg/kg (milligrams per kilogram).
5.) NL = Not Listed
6.) BDL = Below laboratory detection limits.
7.) Bold = Indicates concentrations above the lowest PSRG.
8.) * = Standards for Chromium(VI).

TABLE 4 (Page 1 of 2)

SURFACE VAPOR SURVEY DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

SAMPLE ID	DATE	DATA TYPE	VOCs	Methane			Carbon Dioxide	Oxygen	Hydrogen Sulfide (H2S)		Barometric Pressure	Humidity	Temperature
			ppm	% by volume	% LEL	µg/m³	%	%	ppm	µg/m³	inches Hg	%	°F
			MinRae PID	GEM 2000+					GEM 2000+			Hygrometer	
FIELD MEASUREMENTS													
SV-01	10/23/2015	SV	0	0	0	0	0	20.5	0	0	29.70	49.18	75.38
DUP-1 (SV-01)	10/23/2015	SV	0	0	0	0	0	20.5	0	0	29.70	49.24	76.98
SV-02	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.70	49.98	76.04
SV-03	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.70	55.90	76.26
SV-04	10/23/2015	SV	0	0	0	0	0	20.1	0	0	29.70	51.64	75.77
SV-05	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	53.40	76.13
SV-06	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	61.03	76.17
SV-07	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	49.29	79.39
SV-08	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	50.94	77.90
SV-09	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	49.52	75.48
SV-10	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	45.75	77.82
SV-11	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	45.97	79.62
SV-12	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.68	55.01	73.77
SV-13	10/23/2015	SV	0	0	0	0	0	20.2	0	0	29.64	42.33	81.68
SV-14	10/23/2015	SV	0	0	0	0	0	20.3	0	0	29.64	43.91	80.99
SV-15	10/23/2015	SV	0	0	0	0	0	20.3	0	0	29.64	43.52	83.24
SV-16	10/23/2015	SV	0	0	0	0	0	20.3	0	0	29.64	42.18	87.40
SV-17	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.58	31.96	92.49
SV-18	10/23/2015	SV	0	0	0	0	0	20.4	0	0	29.55	41.68	82.14
SV-19	10/23/2015	SV	0	0	0	0	0	20.5	0	0	29.58	43.84	79.23
SV-20	10/23/2015	SV	0	0	0	0	0	20.5	0	0	29.58	47.90	77.64
SV-21	10/23/2015	SV	0	0	0	0	0	20.6	0	0	29.58	46.08	79.23
SV-22	10/23/2015	SV	0	0	0	0	0	20.6	0	0	29.58	43.39	81.96
SV-23	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	40.51	83.48
SV-24	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	39.47	84.48
SV-25	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	42.08	83.55
SV-26	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	43.03	83.51
SV-27	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	39.12	84.34
SV-28	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	39.38	84.21
SV-29	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	38.30	85.31
SV-30	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	39.94	83.67
SV-31	10/23/2015	SV	0	0	0	0	0	21.0	0	0	29.58	38.38	83.78
SV-32	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	39.12	84.41
SV-33	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	40.16	83.66
SV-34	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	42.72	81.26
SV-35	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	58.71	84.36
SV-36	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	44.00	84.96
SV-37	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	45.99	82.18
SV-38	10/23/2015	SV	0	0	0	0	0	21.0	0	0	29.58	46.38	85.89
SV-39	10/23/2015	SV	0	0	0	0	0	20.9	0	0	29.58	41.43	86.73
SV-40	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	47.39	90.14

TABLE 4 (Page 2 of 2)

SURFACE VAPOR SURVEY DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

SAMPLE ID	DATE	DATA TYPE	VOCs	Methane			Carbon Dioxide	Oxygen	Hydrogen Sulfide (H2S)		Barometric Pressure	Humidity	Temperature
			ppm	% by volume	% LEL	µg/m³	%	%	ppm	µg/m³	inches Hg	%	°F
			MinRae PID	GEM 2000+					GEM 2000+			Hygrometer	
FIELD MEASUREMENTS													
SV-41	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	45.05	85.89
SV-42	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	45.65	87.11
SV-43	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	40.47	85.28
SV-44	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	45.34	86.93
SV-45	10/23/2015	SV	0	0	0	0	0	20.8	0	0	29.58	43.56	82.79
SV-46	10/23/2015	SV	0	0	0	0	0	20.6	0	0	29.58	43.04	84.57
Upwind	10/23/2015	SV	0	0	0	0	0	20.7	0	0	29.58	40.19	84.39

Notes:
1.) ppm = parts per million
2.) LEL = Lower Explosive Limit.
3.) µg/m³ = Micrograms per Cubic Meter.
4.) Hg = Mercury.
5.) SV = Surface Vapor
6.) VOCs = Volatile Organic Compounds.
7.) Methane (%LEL) calculated using the following formula: = (% by volume)*(100% LEL) / (5% by volume).
8.) Methane (µg/m³) calculated using the following formula: = [(% by volume)*10,000*16.04 / 24.45]*1000 where 16.04 grams/mol is the molecular weight of methane and 24.45 is a conversion factor the represents the volume of one mole of gas in liters.
9.) Hydrogen Sulfide (µg/m³) calculated using the following formula: = [(ppm by volume)*34.08 / 24.45]*1000 where 34.08 grams/mol is the molecular weight of hydrogen sulfide and 24.45 is a conversion factor the represents the volume of one mole of gas in liters.

TABLE 5 (Page 1 of 3)

SOIL COVER AND WASTE THICKNESS DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet)	Waste Thickness (feet)	Waste Type	Lithologic Decription	Date of Borehole Advancement	Borehole Depth (feet bgs)	Longitude	Latitude
Waste Disposal Boundary								
B-40	2+	NA	NA	Rocky, grey, dry, SILTY SAND / Blue-grey-tan, dry, SILTY CLAY / Grey-brown, dry, CLAY	10/19/2015	8	-78.789981815	35.790067196
B-41	2+	NA	NA	Grass with brown SILTY CLAY / Brown, dry, SILTY CLAY with pebble to cobble sized asphalt fragments / Brown, dry, SILTY CLAY with pebble to cobble sized rock and asphalt fragments / Brown to grey, moist, SILTY CLAY / Dark grey to black, moist, SILTY CLAY / Blue-grey CLAY	10/19/2015	11	-78.789387769	35.790187198
B-42	2+	NA	NA	Grass with brown, dry, SILTY CLAY / Brown, dry, SILTY CLAY / Brown SILTY CLAY with pebble to cobble sized asphalt / GRAVEL / Grey to black SILTY CLAY / Brown CLAY	10/19/2015	9	-78.789471006	35.790523007
B-43	3	4	Plastic / Metal / Rubber	Brown grey SILTY CLAY / Grey and blue SILTY CLAY	10/22/2015	9	-78.790498452	35.790718744
B-44A	2+	NA	NA	Brown orange SILTY CLAY	10/22/2015	10	-78.790398818	35.790350143
B-44B	1	14	Plastic / Paper / Wire / Glass / Cloth	GRAVEL / Red, moist, SILTY CLAY / Tannish-grey, dry, SILTY CLAY / Greyish, moist, pebbly SILTY CLAY	10/22/2015	16	-78.790385912	35.790394724
B-45	2+	NA	NA	Brown, wet, pebbly SILTY CLAY / Brown, wet, SILTY SANDY CLAY	10/22/2015	10	-78.790744451	35.790384922
B-46A	5	1	Plastic / Glass / Wood	Brown SANDY SILTY CLAY / Grey SILTY CLAY / Tan to light-grey SANDY SILTY CLAY / refusal at 6.5'	10/22/2015	6.5	-78.790723027	35.790855755
B-46B	4.5	2.5	Plastic / Glass	Brown, moist, SILTY CLAY/ Grey-blue SILTY CLAY	10/22/2015	8	-78.790775034	35.790884619
B-46C	2+	NA	NA	GRAVEL / Brown SILTY CLAY / light grey, dry, SANDY CLAY / Dark grey, moist, SILTY CLAY / refusal at 9'	10/22/2015	9	-78.790908538	35.790957729
B-47A	2+	NA	NA	Grey, dry, GRAVEL / Dark reddish-grey, moist, SILTY CLAY / Dark grey, moist, SILTY CLAY / Compost / Grayish-tan, moist, SILTY CLAY	10/21/2015	10	-78.791728366	35.791122621
B-47B	2+	NA	NA	Grey, dry, GRAVEL / Black SILTY CLAY / Grey COMPOST / Black SILTY CLAY / Brown SILTY CLAY	10/21/2015	10	-78.791733000	35.791099694

TABLE 5 (Page 2 of 3)

SOIL COVER AND WASTE THICKNESS DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet)	Waste Thickness (feet)	Waste Type	Lithologic Decription	Date of Borehole Advancement	Borehole Depth (feet bgs)	Longitude	Latitude
Waste Disposal Boundary								
B-48A	2+	NA	NA	Grey, wet, SILTY CLAY / Dark brown to grey SILTY CLAY / refusal at 6'	10/20/2015	6	-78.791856944	35.790960309
B-49A	2+	NA	NA	Crushed Pavement / Light tan-red, moist, SILTY CLAY / Light tan-grey, dry, SILTY CLAY / Bluish-grey, moist, SILTY CLAY / Black, moist, SILTY CLAY / Brown-tan, moist, SILTY CLAY	10/21/2015	10	-78.791871959	35.791310430
B-49B	5	2	Metal / Brick /Wood	Grey, dry, GRAVEL / Black, dry, SILTY CLAY / Dark orange, moist, SILTY CLAY / Black, moist, SILTY CLAY / Brown, moist, SILTY CLAY / refusal at 7'	10/21/2015	7	-78.791837739	35.791281039
B-50A	2+	NA	NA	Dark Brown SANDY CLAY / Dark Red SILTY CLAY with asphalt fraghments / Dark grey, dry, SILTY CLAY / refusal at 6'	10/21/2015	6	-78.792208437	35.791611315
B-50B	2+	NA	NA	Organics with dark brown SILTY SAND / Dark red, moist, SILTY CLAY / Dark grey, moist, SILTY CLAY	10/21/2015	6	-78.792165195	35.791630145
B-51A	2+	NA	NA	Organics with dark brown SILTY SAND / Dark red, moist, SILTY CLAY / Dark grey, moist, SILTY CLAY	10/21/2015	10	-78.792520200	35.791790401
B-51B	5	5	Styrofoam / Plastic / Wire	Grey PEBBLY SILTY SAND / Reddish-grey, moist, Pebbly SILTY SAND / Reddish-grey, moist, SILTY CLAY / Dark grey SILTY CLAY / Dark reddish-grey SILTY CLAY / Dark bluish-grey, dry, SILTY CLAY	10/21/2015	14	-78.792547929	35.791859794
B-52A	3	7	Glass / Wood	Red, moist, SILTY CLAY / Brown-grey, moist, SILTY CLAY / Grey, moist, SILTY SAND	10/20/2015	15	-78.792710986	35.791957160
B-52B	5	5	Plastic	Red, moist SILTY CLAY / Grey-red SILTY CLAY / Dark grey, moist, SILTY CLAY / Light grey, moist, SILTY CLAY	10/21/2015	15	-78.792763413	35.791956888
B-B2C	2+	NA	NA	Grey-red SANDY CLAY / Red, moist, SANDY CLAY / Dark grey, moist, SILTY CLAY / Dark grey, SILTY CLAY	10/21/2015	13	-78.792761876	35.791911175
B-53A	8	16	Glass / Plastic / Metal / Wood	Organics / Brown, dry, SANDY CLAY / Dark, black, moist, CLAY / Light grey, wet, CLAY	10/19/2015	24	-78.793803323	35.792397073

TABLE 5 (Page 3 of 3)

SOIL COVER AND WASTE THICKNESS DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet)	Waste Thickness (feet)	Waste Type	Lithologic Decription	Date of Borehole Advancement	Borehole Depth (feet bgs)	Longitude	Latitude
Waste Disposal Boundary								
B-54A	2+	NA	NA	Organics / Orange, dry, SILTY CLAY / SILTY CLAY with pebble to cobble sized asphalt fragments / Dark grey, dry, SILTY CLAY / Grey, moist, CLAY	10/22/2015	10	-78.789501384	35.790236517
B-54B	2+	NA	NA	Organics / Orange-red, dry, SILTY CLAY / Grey, moist, SILTY CLAY	10/22/2015	10	-78.789546284	35.790260892
Temporary Monitoring Well Borings								
TMW-1	2+	10	Metal / Plastic	Organics / Orange-red, dry, CLAY / Very light grey, dry, CLAY / Orange-grey, dry, SILTY CLAY / Dark grey, moist, CLAY / Brown to grey, moist SILTY CLAY / Light brown, moist, CLAY / Dry, Partially weathered rock / refusal at 17'	10/20/2015	17	-78.789691432	35.790265665
TMW-2	NA	NA	NA	Organics / Dark, damp, SILTY CLAY / brown to grey, wet, SILTY CLAY / Brown to grey, wet, pebbly SILTY SAND / refusal at 6'	10/20/2015	6	-78.791467691	35.790669667
TMW-3	3.5	>1	Plastic	Organics / Dark brown, moist, SILTY CLAY / Brown to grey, moist, SILTY CLAY / Grey to blue, wet, pebbly SILTY CLAY / Refusal at 4'	10/19/2015	4	-78.792715035	35.791743182
TMW-4	7	15	Concrete / Wood / Metal / Glass	Red, dry, CLAY / Red to brown, dry, CLAY / Black, dry, SILTY CLAY / Blue to grey, moist, SILTY CLAY / Light grey, wet, CLAY / Partially weathered rock	10/19/2015	22	-78.793813257	35.792403646

Notes:
1.) NA = Not applicable.
2.) feet bgs = feet below ground surface.
3.) 2+ = Soil cover exceeds two feet in thickness.

TABLE 6

TEMPORARY MONITORING WELL CONSTRUCTION DETAILS

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

Monitoring Well ID	Date Installed	Date Abandoned	Date Measured	Latitude	Longitude	Casing Diameter (inches)	Screen Interval (feet)	Borehole Depth (feet)	Top of Casing Elevation (feet)	Depth to Water (feet bgs)	Groundwater Elevation (feet)	Depth to Product (feet bgs)	Product Thickness (feet)
TMW-1	10/20/2015	10/22/2015	10/21/2015	35.7902697	-78.7896775	0.75	4.5-14.5	17	NS	14.22	NS	14.21	0.1
TMW-2	10/20/2015	10/22/2015	10/21/2015	35.7906737	-78.7914538	0.75	3-6	6	NS	3.67	NS	ND	NA
TMW-4	10/19/2015	10/22/2015	10/20/2015	35.7924077	-78.7937993	0.75	17-22	22	NS	Dry	NS	ND	NA

Notes:
1.) NS = Not Surveyed.
2.) ND = Not Detected.
3.) NA = Not Applicable.
4.) bgs = Below Ground Surface.

TABLE 7

GROUNDWATER ANALYTICAL DATA

Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

PARAMETER	NC 2L STANDARDS	TMW-2	TMW-2
SAMPLE DATE		10/21/2015	10/22/2015
VOLATILE ORGANIC COMPOUNDS (VOCs) in mg/L			
Acetone	6	0.037	NA
METALS in mg/L			
Arsenic	0.01	NA	0.0011
Beryllium	0.004	NA	0.00012
Chromium	0.01	NA	0.0027
Copper	1	NA	0.0042
Iron	0.3	NA	**3.3**
Lead	0.015	NA	0.0021
Manganese	0.05	NA	**3.9**
Nickel	0.1	NA	0.0093
Selenium	0.02	NA	0.0022
Zinc	1	NA	0.0076
ADDITIONAL ANALYTES in mg/L			
Ammonia as Nitrogen	1.5	**2.5**	NA
Sulfate	250	NA	9.0

Notes:
1.) NC 2L Standard = Title 15A NCAC 2L .0202 Groundwater Standard (April 2013).
2.) Bold = Indicates concentrations above the corresponding 2L Standard.
3.) Values reported in mg/L (milligrams per liter).
4.) NA = Not Analyzed.
5.) Due to an insufficient volume of groundwater, TMW-2 was sampled for VOCs and Ammonia (as Nitrogen) on 10/21/2015 and Metals and Sulfate on 10/22/2015.
6.) TMW-1 not sampled due to free product. TMW-4 not sampled due to insufficient volume of groundwater.

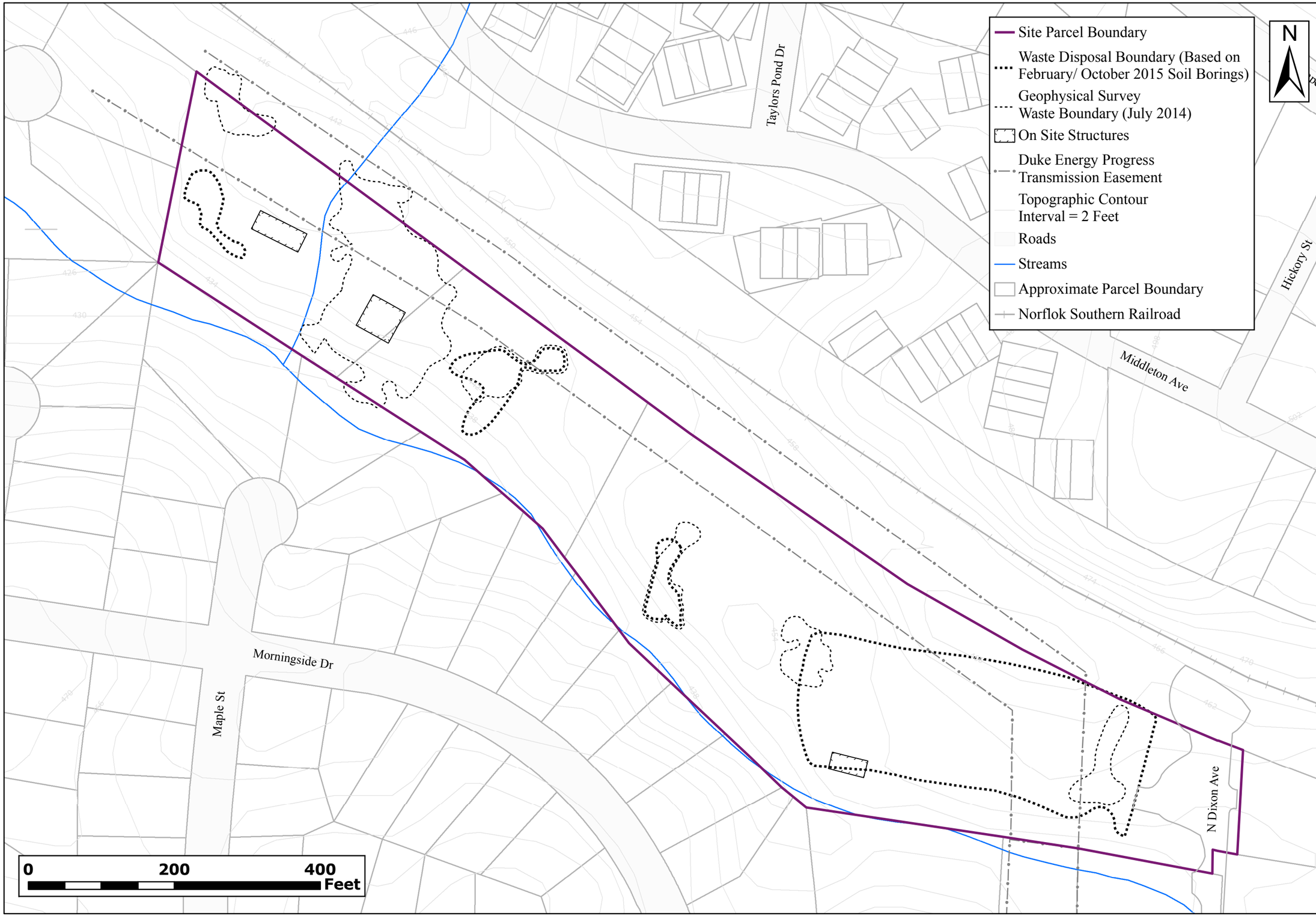
TABLE 8

RINSATE ANALYTICAL DATA
Cary Dump
NONCD0000602
Cary, Wake County, North Carolina

PARAMETER	NC 2B STANDARD	NC 2L STANDARD	SED- Rinsate Blank	TMW-Rinsate Blank
SAMPLE DATE			10/21/2015	10/21/2015
METALS in mg/L				
Copper	0.007	1	0.0008	0.0021
Lead	0.025	0.015	BDL	0.00014
Manganese	0.2*	0.05	0.0009	0.0006
ADDITIONAL ANALYTES in mg/L				
Sulfate	250	250	BDL	0.66

Notes:
1.) NC 2B Standard = Title 15A NCAC 2B Surface Water Standard for Class C waters (May 2013), or if no NC 2B Standard established, North Carolina and EPA Criteria Table (May 2013).
2.) NC 2L Standard = Title 15A NCAC 2L .0202 Groundwater Standard (April 2013).
3.) BDL = Below laboratory detection limits.
4.) SED- Rinsate Blank was collected from a hand auger used for stream sediment sampling during the October 2015 field event.
5.) TMW- Rinsate Blank was collected from an interface probe used for gauging depth to water in October 2015 field event.

FIGURES



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Raleigh, North Carolina, 27604
(919) 871-0999

PROJECT NO. PRLU0602A
DATE: 1/14/2016
SCALE: 1 " = 125 '
REV: JB
PREP: RB

FIGURE 1 - SITE MAP
CARY DUMP
NONCD0000602
313 NORTH DIXON AVENUE
CARY, WAKE COUNTY, NORTH CAROLINA

TASK ORDER: 602DP-1 & 2

NOTES:
Features shown are not an authoritive location, nor are they presented to a stated accuracy.

DATA SOURCES:
Wake County GIS Department

COORDINATE SYSTEM:
NAD 1983 North Carolina State Plane FIPS 3200, US Survey Feet

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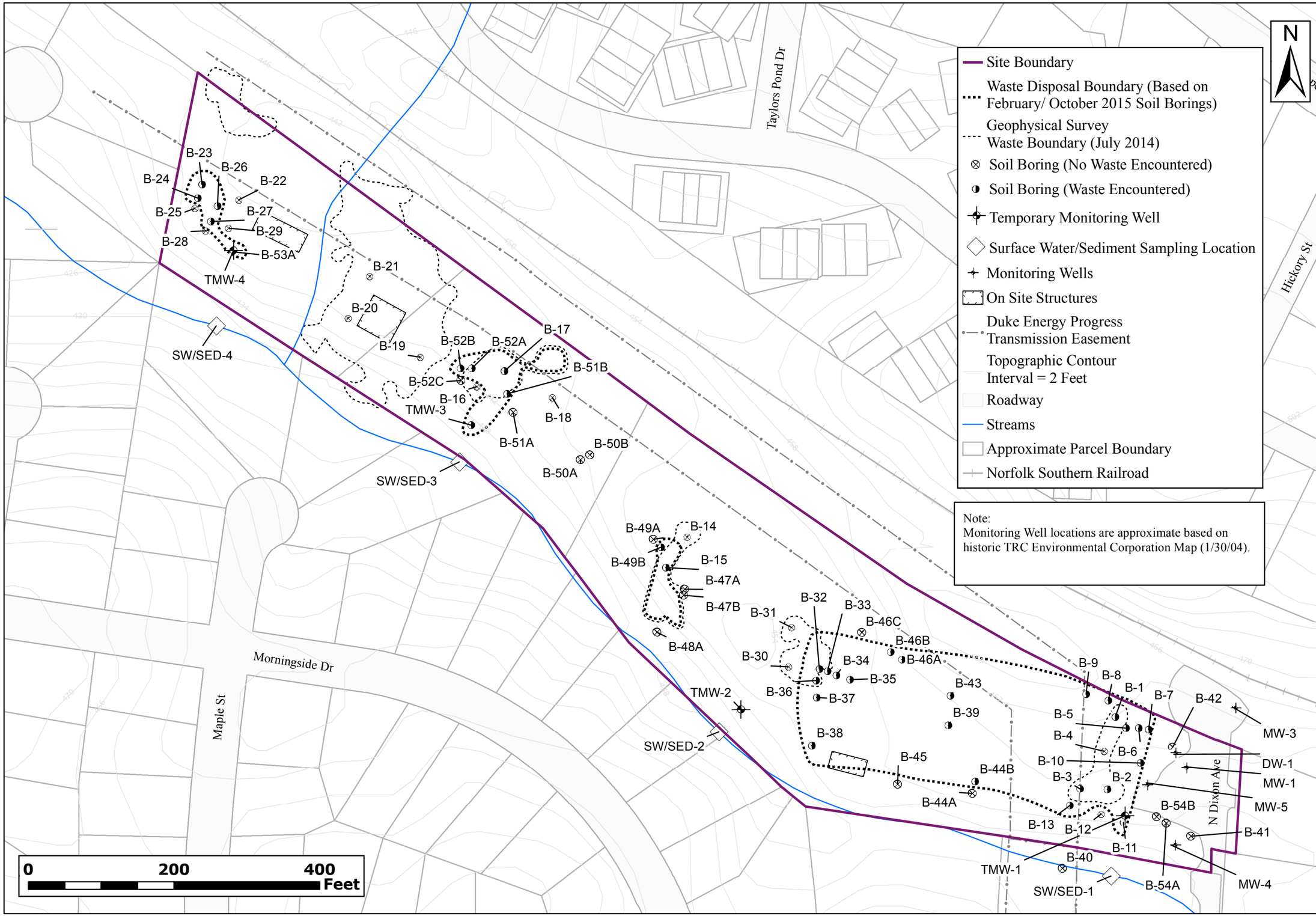

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PROJECT NO. PRLU0602A
DATE: 1/14/2016
SCALE: 1 " = 125 '
REV: JB
PREP: RB

FIGURE 2 - INVESTIGATION LOCATION MAP
CARY DUMP
NONCD0000602
313 NORTH DIXON AVENUE
CARY, WAKE COUNTY, NORTH CAROLINA

TASK ORDER: 602DP-3 and 602DP-4

NOTES:
Features shown are not an authoritive location, nor are they presented to a stated accuracy.

DATA SOURCES:
Wake County GIS Department

COORDINATE SYSTEM:
NAD 1983 North Carolina State Plane FIPS 3200, US Survey Feet

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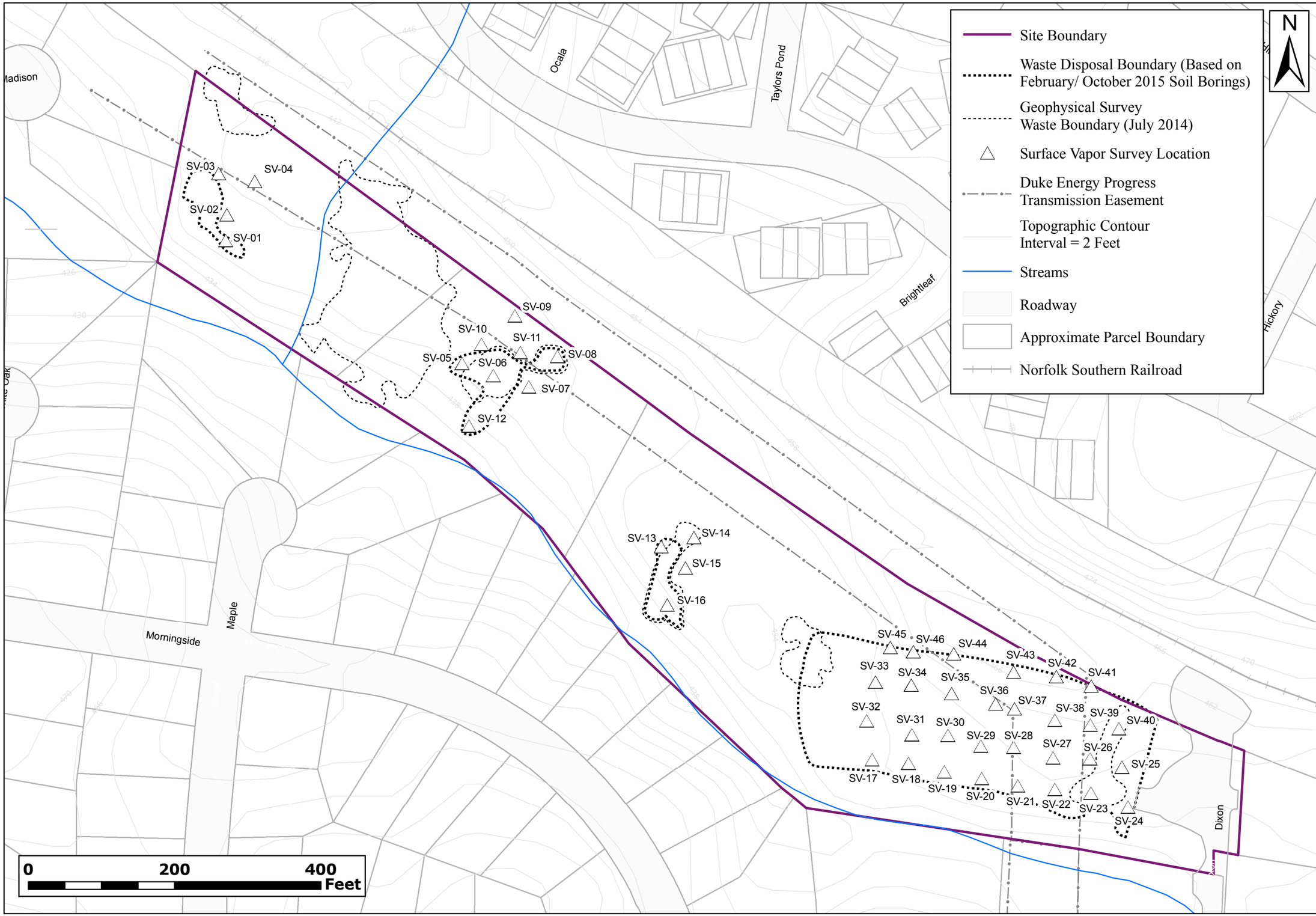

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PROJECT NO. PRLU0602A
DATE: 1/14/2016
SCALE: 1 " = 124 '
REV: JB
PREP: RB

FIGURE 3 - SURFACE VAPOR SURVEY MAP

CARY DUMP
NONCD0000602
313 NORTH DIXON AVENUE
CARY, WAKE COUNTY, NORTH CAROLINA

TASK ORDER: 602DP-3 and 602DP-4

NOTES:
Features shown are not an authoritive location, nor are they presented to a stated accuracy.

DATA SOURCES:
Wake County GIS Department

COORDINATE SYSTEM:
NAD 1983 North Carolina State Plane FIPS 3200, US Survey Feet

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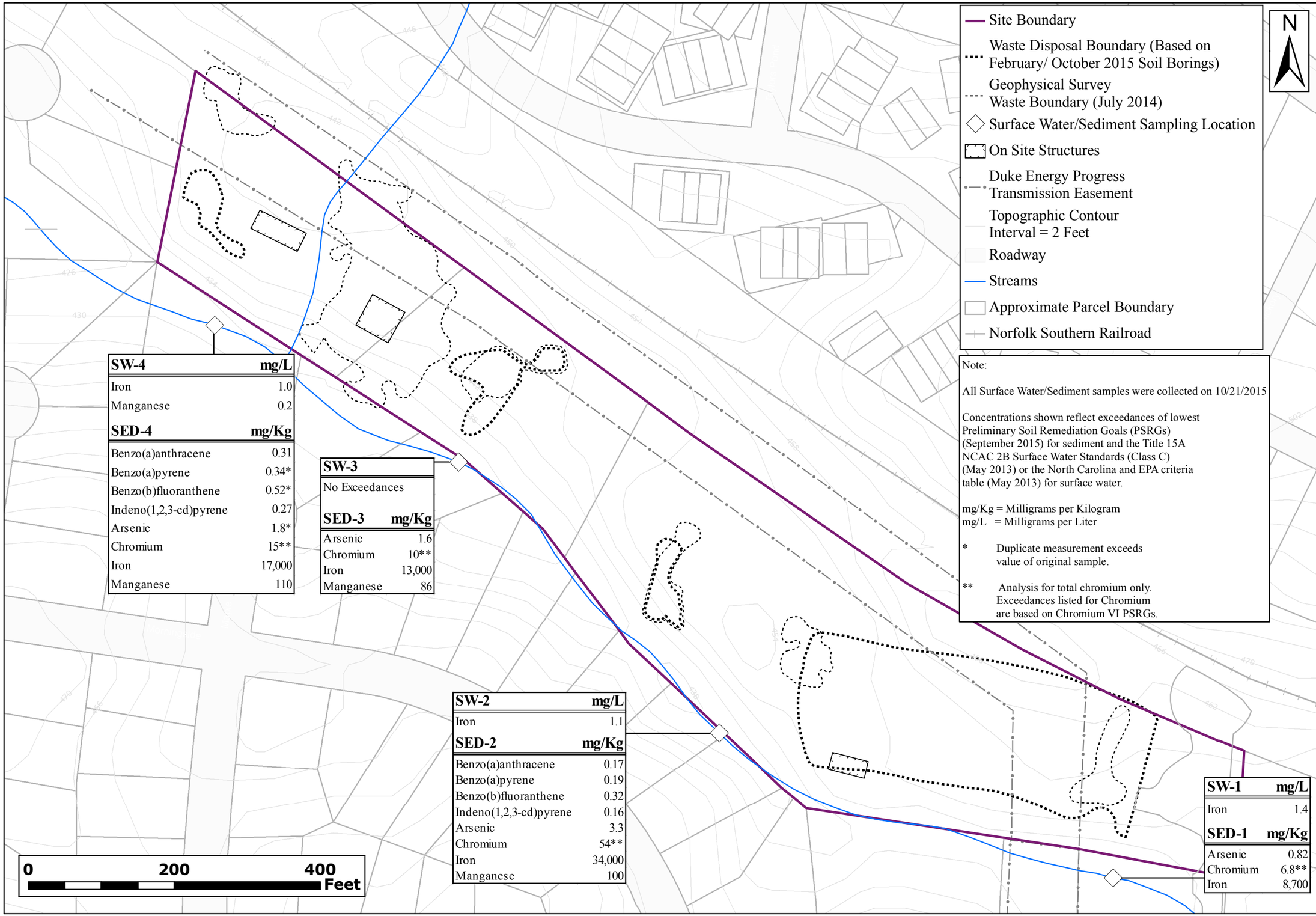

Note:

All Surface Water/Sediment samples were collected on 10/21/2015

Concentrations shown reflect exceedances of lowest Preliminary Soil Remediation Goals (PSRGs) (September 2015) for sediment and the Title 15A NCAC 2B Surface Water Standards (Class C) (May 2013) or the North Carolina and EPA criteria table (May 2013) for surface water.

mg/Kg = Milligrams per Kilogram
mg/L = Milligrams per Liter

* Duplicate measurement exceeds value of original sample.

** Analysis for total chromium only. Exceedances listed for Chromium are based on Chromium VI PSRGs.

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PROJECT NO. PRLU0602A
DATE: 1/14/2016
SCALE: 1 " = 125 '
REV: JB
PREP: RB

FIGURE 4 - SEDIMENT AND SURFACE WATER EXCEEDANCES MAP
CARY DUMP
NONCD0000602
313 NORTH DIXON AVENUE
CARY, WAKE COUNTY, NORTH CAROLINA

TASK ORDER: 602DP-3 and 602DP-4

NOTES: Features shown are not an authoritive location, nor are they presented to a stated accuracy.

DATA SOURCES: Wake County GIS Department

COORDINATE SYSTEM: NAD 1983 North Carolina State Plane FIPS 3200, US Survey Feet

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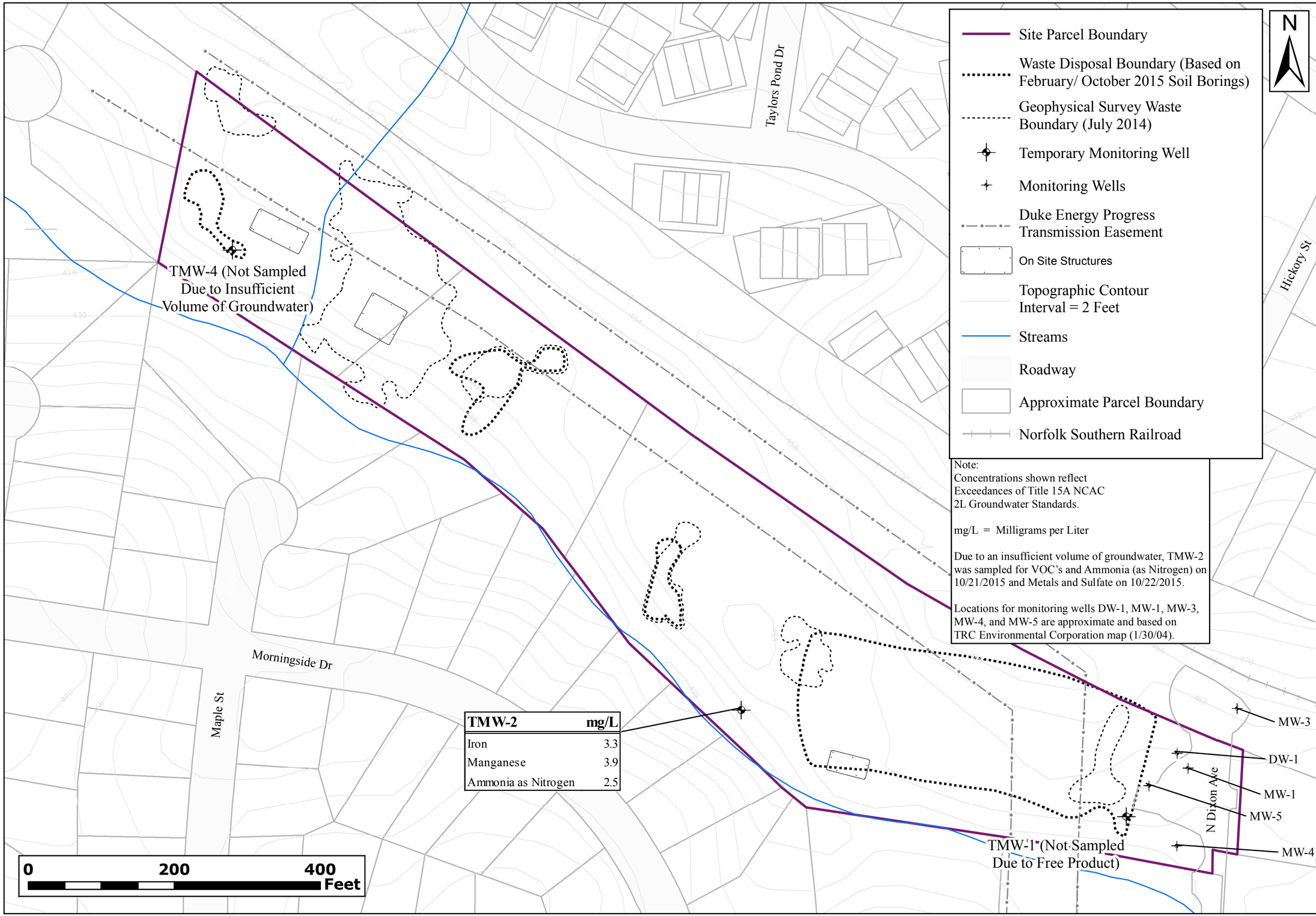

Note:
Concentrations shown reflect Exceedances of Title 15A NCAC 2L Groundwater Standards.

mg/L = Milligrams per Liter

Due to an insufficient volume of groundwater, TMW-2 was sampled for VOC's and Ammonia (as Nitrogen) on 10/21/2015 and Metals and Sulfate on 10/22/2015.

Locations for monitoring wells DW-1, MW-1, MW-3, MW-4, and MW-5 are approximate and based on TRC Environmental Corporation map (1/30/04).

TMW-2	mg/L
Iron	3.3
Manganese	3.9
Ammonia as Nitrogen	2.5

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FIGURE 5 - GROUNDWATER EXCEEDANCES MAP
CARY DUMP
NONCD0000602
313 NORTH DIXON AVENUE
CARY, WAKE COUNTY, NORTH CAROLINA

TASK ORDER: 602DP-3 and 602DP-4
PREP: RB
REV: JB
SCALE: 1 " = 125 '
DATE: 1/14/2016
PROJECT NO. PRLU0602A

NOTES:
Features shown are not an authoritive location, nor are they presented to a stated accuracy.

DATA SOURCES:
Wake County GIS Department

COORDINATE SYSTEM:
NAD 1983 North Carolina State Plane FIPS 3200, US Survey Feet

Path: S:\GIS_GPS\Project_Folders\LF-Cary Dump\MXD_October_2015\Figure4_Cary_Dump_10_2015_5_Groundwater_Exceedances.mxd

APPENDIX A

FIELD NOTES, INSTRUMENT CALIBRATION LOGS, AND DATA SHEETS

Cary landfill 14-PFB

10-19-15 JB AM CN RB

Dodge 4x4 67176

0730 begin loading truck (AM, RB, CN)

0755 Depart for site

0831 Arrive @ site

0837 RB & CN onsite

0839 JB onsite

0900 Join w/ City of Cary onsite. Discuss drill locations

1044 JB departs site / Drillers already onsite / JB discussed w/ drillers work to be conducted

Carolina Soil investigations (CSI)
Geoprobe 78220T
Keith Spence
William Wyatt

1049 Conducted H&S meeting

Cary landfill 15-PFB

10-19-15 AM CN RB

1105 Mobilize to SB-40 location & begin hand augering

1115 John Marmino w/ City of Cary (locator) completed locator service. / John OK'd locations for TMW 2 & 3. JM left contact ~~for~~ info in case there are any leaks or lines hit w/ drill rig.

1150 Mobilize to B-41 location

1235 Mobilize to B-42

1250 AM Depart for lunch / will bring lunch to site for coworkers

1330 Arrive back @ site w/ lunch Corey Spence onsite wit CSI

1428 Mobe to TMW-4 location (Plan B) begin hand augering all notes on logs.

10-19 Cary landfill 16-PFB AM CN RB

1720 Depart Site

1756 Arrive @ office
4x4 mileage: 67224

AM

10-20 Cary landfill 17-PFB ~30°F AM RB ED CN

0700 Depart office 4x4 mileage
67224

0740 Arrive @ ~~office~~ AM Site
Drillers NW + CS onsite
RB + CN on site
Conduct H+S meeting

0815 Move to TMW-3 location

0840 Offset twice/spoke to JB
instructed to offset a few (~4)
time + regroup.

0905 Refusal 4 time w/ hand
auger / Move to TMW-2 until
PM contacts AM

0936 Break away from drill crew
to locate borings.

See Coworker notes CN/RB
for updates

1416 ED + AM begin hand auger in
5 ft ahead of drillers

18-PFB Cary landfill ~50's°F Am CN RB ED

10-20-15

1429 Attempted to hand auger B-47 / Flag was covered w/ mulch - offset 4 times + hit refusal @ 0.75 ft bgs 3 times + 2 ft bgs 1 time.

1438 Mob to next boring / B-48

1500 Attempted to hand auger @ B-48.
1) Refusal @ 4 ft bgs Silty Clay 0-4
offset 2) " 4 ft bgs " " "
" 3 " " " "

No waste encountered

1525 Attempted to hand auger B-49
Waste @ Surface 1) Refusal @ 2 ft bgs Silty Clay
" offset 2) " " 1.5 ft bgs " "
" " 3) " " 2 ft bgs "

1546 Attempted to hand auger B-52A
1) Refusal @ 0.5 ft bgs Silty Clay
offset 2) Refusal @ 3 ft bgs " "
3) Refusal @ 4.5 ft bgs " "
No waste

Cary landfill 18-PFB ~50°F Am CN RB ED

1020-15

1735 Depart Site

1810 Arrive @ home
Mileage 4x4 dodge
67272

Am

10-21 | 20PPB | Cary landfill | Sunny 73°F | AM CN RB

0700 Depart home Mileage: 67272

0741 Arrive @ Site RB + CN onsite

0755 Spoke w/ Leroy w/ City of Cary about moving brush from B-52B location

0829 Spoke w/ JB + instructed to drill @ all attempted locations from yesterday / Add an additional boring between B-41 + TMW-1 if time permits. Instructed to call for each location where 5ft bgs cannot be achieved w/ hand auger.

0830 Proceed to B-52B

0849 Hand Auger 4 ft bgs @ B-52B - Will proceed w/ drill rig per JB.

0941 Mobe to B-51

10-21 | Cary landfill | 20PPB | Sunny mid 60°F | AM CN RB

1116 Mobe to B-50

1216 leave for lunch

1310 Arrive @ Site + assess next location

1333 Mobe to B-48

1411 Mobe to B-49

1425 B-49A

0-0.5 ft crushed pavement
0.5-1.5 ft light tan/Red Silty Clay moist
1.5-2.5 light tan/gray Silty clay dry
Granules
2.5-3.5 blish gray Silty clay moist
3.5-5 black Silty clay moist
5-10 brown/tan Silty Clay moist
~~to~~ no waste

1453 Mobe to B-47

10-21-5 Cary landfill 22-PFB mid 70s Sunny AM CW RB

1455 B-47A
0-0.5 gravel/grey dry
0.5-2 Reddish/dark grey Silty clay moist
2-4 dark grey Silty clay moist
4-5 - Appears to be ~~Ash~~ Compost
5-10 greyish tan Silty clay moist (Native Soil)

~~1445~~ 1514 B-47B
~~[illegible]~~
ROBERT TAKING OVER B/C ANDY IS GOING TO DROP OFF SAMPLE

0-.5' gravel/grey dry
.5'-2' BLACK Silty CLAY
2'-4' APPARANT Compost (GREY) (NO TRASH OBSERVED)
4'-6' BLACK Silty CLAY
6'-10' BROWN Silty CLAY
END of BORING

- OBSERVED THAT the GREY COMPOST WAS HOT AND very small Particles. APPEARED ASHY

10-21-5 CARY LANDFILL 23-PFB mid 70s Sunny AM RB CW 10-21

1540
- The GREY COMPOST IS ~~[illegible]~~ DIRECTLY South of the LARGE compost ~~[illegible]~~ Pile. ~~[illegible]~~ (consisting of TREE LIMBS CARDBOARD & LEAVES, ect.)
↳ Picture TAKEN ON ROBERT'S PHONE LOOKING NORTH

1556 Depart Site

1619 Arrive @ Contest lab
Relinquish Samples to Brent Rudar w/ Contest

1655 Depart Contest

1725 Arrive @ home
military 4x4 dodge
67335

AM

10-22 Cary Landfill 24-FEB AM RB CN

0715 Depart home
mileage 67335

0755 Arrive @ site

0815 Meet w/ CN + RB + discuss Plan for day

0820 Drillers onsite / Conduct HTS meeting / Continue w/ Soil Borings

1030 Spoke w/ JB Regarding B-45 instructed to drill off concrete + in grass area. Called locator regarding water line behind building. Locator John Martino w/ City of Cary OK'd the three boring locations for H_2O line (B-45, B-45, B-54)

10-22 Cary landfill 25-FEB AM RB CN

1144 Move to B-44B (Corner of Pavement - to locate trash)
0-0.5 rock + gravel
0.5-1 Red Silty clay moist (Possibly fill)
1-2 tannish grey silty clay dry plastic pieces
*Petro odor 2-5 Grayish red Silty clay w/ gravel moist
5-7 Gray Silty clay moist trash glass pieces plastic pieces/paper
7-8 grey Silty clay moist paper/wire *Petro odor
8-15 grey Silty clay very moist *Petro odor - paper, wire, sacks
15-16 Gray silty clay very moist - Native Soil

1158 Move to B-45B hand auger 1 ft + hit refusal PM did not approve driller due to possible utilities

1200 Depart for lunch

1300 Arrive @ site

10-21 Cary Landfill 26-PFB AM RB CN

1315 Abandoned TMW-1

1330 Begin logging all unlocked points in GPS

1453 Depart Site

1505 Off Clock

1719 Back on Clock

1808 Arrive @ home
Mileage 67396

AM

10-22 27-PFB Cary landfill 70°F Sunny AM RB

0740 Depart home mileage 67396

0824 Arrive @ Site

0831 RB onsite / conduct H+S meeting

0934 Equipment calibrated & Grid for SV Created
Begin SV collection

1222 Depart Site for lunch

1323 Arrive @ Site

1453 Depart site / Soil / Gas Survey Complete - See forms
Stopped for fuel

1526 Arrive @ office
Mileage 67444

AM

Cary Dump 10-19-15

12:40 B-42 ?

4" hit rock. Quartz or Quartzite (Refusal)

14:45 TMW-4 20.28ft below TOC

Surface: Dry red clay/straw

- 0-2.5: Dry red clay hit landfill Fill of concrete chunks at 2.5
- 2.5-7 Dry red/brown mottled clay
- 7-10 (limited recovery) Dry dark charcoal colored silty clay w wood & rock fragments
- 10-15 (limited recovery) Dry dark charcoal colored silty clay [in waste with wood, glass, metal fragments]

TOC = Top of Casing

10-19-15 Cary Dump

15-20 limited recovery at drill head clay is blue gray soft moist maliable silty clay

22' Refusal struck light grey wet clay with glass fragments. PWR hit at 22

B-53 0-5' Dry sandy clay no waste

5'-8' Dark charcoal dry clay no waste

8'-10' moist dark charcoal clay with small amount of waste [glass, plastic, metal fragments]

10-14 moist dark black clay [glass, wood]

24' hit wet malliable clay light grey

Native Soil ← (lighter color could be from water staining soil light color)

Cary Dump 10-19-15

	TMW-3		hand auger 5'
16:30		0-1'	organics dark brown moist silty clay
		1'-2'	Moist silty clay brown/grey
		2'	hit rock so will have to push the rest of well
16:40	TMW-2		hand Auger 5'
		0-3	very moist gray light brown sandy clay with pebbles
		3'-4'	grey wet malliable silty clay
		4-5'	blue gray moist sandy clay
16:55	TMW-1		hand Auger 5 ft'
		0-.2	Grass organics
		.2"-.75	Dry orange/Red clay
		.75"-2'	Dry very light grey clay

10-19-15 Cary Dump

	2'-3.5'	Dry orange grey silty clay
	3.5-5	Dark grey moist clay
	5'	started to pick up west right at 5' while hand augesing. Metal, glass, plastic bag, wire fragments
17:30	Leaving Cary landfill	
18:45	Back home	

· End of day odomiter
- 114,333

corn
Nobles

Cary Dump 10-20-15

8:45 TMW-3

DP 0-2.5' Wet grey/blue silty clay with rock fragments (quartz), fragments of plastic were found as well. Refusal at 4ft.

9:20 TMW-2

DP 0-1' dark organics silty clay damp
1'-2' Brown/Grey moist silty clay
2'-5 Brown/Grey wet silty clay
5'-6' silty sand wet grey/Brown. Pebble and large pebble sized rock fragments (River/stream sed. drop off)

* DP = Direct push * MC = Macro Core

10-20-15 Cary Dump

TMW-1

0-5': Notes from yesterday
5-10' MC: Limited recovery. (2.5ft.) brown silty clay to light grey damp SL
10'-15' MC Limited recovery (1ft.) light brown moist SL silty clay malliable
15-17' MC .5 moist malliable light brown silty clay
1' Dark grey wet very malliable silty clay
Plastic ← metallic trash in between 16.5-17'
.5 Dry PWR
- well installed at 14.5ft Top of casing due to fall in/Collapse

14:10 B-41 hit trash at 8"
- Metal, plastic fragments
- Refusal at 1ft.

GPR = Ground Penitrating radar

Cary Dump 10-21-15

TMW-2 Not prepacked
screen 3-6
sand 3.5-6
rest bentonite

4:20 GP-1
DTP: 6.86 Total depth
DTW: 6.87 11.14 TOC

☆ ☆ Bottle for metals is yellow dot. Nitric Acid

10-21-15

16:30 B-46 Refusal at 3.5 ft. Brown sandy silty clay

16:40 B-43 Grass/organics
0-.5" Refusal
Dry orange silty sand with gravel.

16:46 B-45 Grass/organics
0-1' brown damp sl
Refusal
• Rock fragments

10-21-15 Cary Dump

19:00 Leaving Cary Dump

9:05 B-46B
Leaves/mulch
0-1' Brown damp silty cl

☆ auger stem
~~auger flights~~

☆ You can use GPR on PVC if PVC has traver wire.
☆ Cardno usually wants 5 ft either side.
☆ utilities gives you 30" on each hash color mark to dig

5 | Southgate cleaners | 10-14-15

10:50 AM BRODA / NOBLES LEAVING office to install 3 Temp GAS wells @ 3 ft Depth w/ HAND AUGER

Starting MILAGE 67158

11:10 @ LUNCH. Chicken Store

- we Decided That Cory Nobles is Going to Record His All The Notes IN HIS Field Book. Check HIS NOTES FOR DETAILS. But 3 Temp GAS wells were installed TODAY.

3:50 pm NOBLES/BRODA off site

Back + unpacked AT office

@ 4:45 PM

CARY DUMP | 10-19-15 | 6

1100 Took over field NOTES FOR CORY Because He HAS to Go Get Boots.

B-40

on other SIDE of The DRAINAGE.

BORING LOCATED ON ROAD SIDE of SEWER PIPE Because The PIPES WERE NOT well Defined close To The DRAINAGE

0-1.5' Rocky silty SAND, GREY-BLACK & Pebble sized Rock

1.5'-5' Blue-Grey and tan silty clay.

5'-8' GREY-BROWN CLAY

8' Refusal Pieces of TAN BROKEN SAND SIZE Rock IN A CLAY MATRIX

PID - 0.0 AMBIENT AIR

end of BORING

CARY Dump 10-19-15

12:00

B-41

0'-.25' - grass w/ BROWN silty clay
0.25' - .75' - BROWN silty clay w/ Pieces of Asphalt
.75' - - LARGE Piece of ASPHALT
.75' - 3.5' - Brown silty clay with Bebble to cobble sized Rocks AND SMALLER FRAGMENTS of Asphalt
3.5' - 4' - BROWN to GREY silty CLAY (DRY)
4' - 4.5' - BROWN to GREY MOIST silty CLAY
4.5 - 9.5 - DARK GREY to BLACK silty CLAY (likely fill)
9.5' - 11' - BLUEISH - GREY CLAY (likely NAtive soil)
end of BORING

PID. Ambient AIR - 0.0

12:40

@ 1300 ANDY want to get LUNCH + CORY GOT Back FROM buying Boots.

B-42

0'-0.25' - Grass w/ BROWN SILTY CLAY
0.25' - 1.5' - BROWN SILTY CLAY

1.5' - 2' - BROWN SILTY CLAY w/ Pieces of ASPHALT AND Pieces of Rock Pebble to COBBLE SIZED
2' - BLACK clayey SAND (Hit Refusal w/ HAND Auger) GOING TO USE RIG to BREAK UP What is likely Asphalt Then keep HAND AUGERING.
2' - GRAVEL
2' - 7' - GREY to BLACK SILTY CLAY
7' - 9' - BROWN CLAY
9' - Pieces of SANDY ROCK QUARTZ Pebble to COBBLE ROCK FRAGMENT BROKEN By DRILL
9' - Refusal, end of BORING

14:45 → CORY NOBLES NOTES TAKING OVER
END OF NOTES TODAY

- TMW4

We selected option B ~~B~~ ~~A~~ which is NOT By the fence. The LARE Piper is Blocking ACCESS AND We Do NOT Feel comfortable going to option A.

FROM what we TALKED AB[illegible] w/ JUSTIN B[illegible]

10:20

TMW-1

- While CORY & CORY ARE TRYING to install TMW-2 (see CORY NOBLES NOTES for explination). Me & WILLIAM (ESI) ARE GOING TO HAND AUGE TMW-1 closer to fence (South) to TRY & offset FROM TRASH.
- Powerlines NEAR fence will NOT Allow US to DRILL Next TO Fence. (South of ORIGIONAL HAND Auger for TMW-1). However we ARE HAND AUGERING next to fence to see if there is TRASH IN The Top 5 feet.

10:10 AM

After TALKING TO Justin BALLARD He told US to TRY & install well TMW-3 AT TOP of The HILL on other SIDE of fence. See next PAGE

CARRY LANDFILL 10-20-15

TMW-3 11:15 AM

0-1' Brown ~~[illegible]~~ SANDY CLAY with Small Rock Pieces

- hit Refusal At 1' or less for multiple Attempts At Top of The Hill. There is A Huge Pile of Asphault To The North, Which is likely covering Attempted Boring locations.

11:35

TMW-1

↳ see Nobles Notes for 1st 5' of Hand Auger (Hit TRASH At 5')

5'-10' (Direct Push)

Light Brown to Blue-grey silty CLAY w/ limited Recovery (About HALF of MACROCORE)

NO TRASH ~~[illegible]~~ OBSERVED

~~1530~~ 1500

After TALKING To Justin, He SAID Guage The old wells + Get BACK To him to See what Decision To MAKE At TMW1

OLD STUFF:

Well ID	DTW	Depth to Product	Bottom of CASING
MW-1	7.87	7.86	31.22
DW-1	9.50	9.49	43.45
GPW-1			
MW-3	10.83	10.82	34.51
MW-4	6.54	6.53	14.57

- Justin TALK ~~[illegible]~~ Dont Purge Yet
- Dont TAKE YSI

1st Section

SV3 SV4 to NW.

SV2

SV1

Conformation #
ep0326
FROM PINE
DROP off
Gem

2ND

SV9

SV10 SV11 SV8

SV5 SV6 SV7

3RD

TMW 3 SV12

SV13 SV14

SV15

SV16

END MILAGE
114547

4TH

22 ect

17 18 19 20 21

LEAVING SITE
2:50 PM

TOWN OF CARY OPERATIONS EMERGENCY CONTACT INFORMATION

Call Main Contacts first:

PWUT Customer Service & Response (8:00 am-5:00 pm)	**(919) 469-4090**
Police (non-emergency) (After 5:00 pm and Weekends)	**(919) 469-4012 or 4013**

(Police will contact Night Crew or Response Team Lead (RTL) depending on time of report)

Reclaimed Water

Greg Jenkins	(919) 830-1548 cell
Rick Jordan	(919) 210-2404 cell

Potable Water

Water Quality On-Call	**(919) 323-9769**
Bobby Fann	(919) 650-7010 cell
Davis Reynolds	(919) 621-1206 cell
Craig Hollister	(919) 621-7999 cell

Sanitary Sewer Overflow

1st-Sewer On-Call	**(919) 323-0744**
2nd-Sewer On-Call	**(919) 323-2192**
3rd-Sewer On-Call	**(919) 830-0558**
Sam Tingler	(919) 604-9224 cell
Paul Campbell	(919) 418-9408 cell

Traffic Signals

Traffic Signals On-Call	**(919) 740-2085**
Mike Billings	(919) 337-5692 cell

Construction (Streets)

RTL (Response Team Lead)	**(919) 621-8236**
RTL (Back Up)	**(919) 323-2020**
Bill Roy	(919) 270-7879 cell

Construction (Utilities)

RTL (Response Team Lead)	**(919) 621-8236**
RTL (Back Up)	**(919) 323-2020**
James Mills	(919) 244-0400 cell

12" 8" SS

ATC ASSOCIATES OF NORTH CAROLINA, P.C.
Engineering Individual Solutions

Water Quality Log
Surface Water, Sediment

2725 East Millbrook Road
Suite 121
Raleigh, NC 27604
Tel: 919-871-0999
Fax: 919-871-0335
www.atcassociates.com
N.C. Engineering License No. C-1598

Location ID	Time	Temp (deg C) +/- 1 deg C	Conductivity (mS/cm) +/- 10%	pH (units) +/- 0.1	Turbity (NTU) <10	Notes (color, odor)	ORP		
SW-4	10:45	10.77	0.612	8.50	6.21	No color or odor	14.6		
SW-DupA	10:45	⊥	⊥	⊥	⊥	⊥	⊥		
SW-3	12:20	13.19	0.301	9.11	3.18	No color/odor	7.4		
SW-2	13:20	12.16	0.299	9.07	9.35	No color/odor	-9.4		
SW-1	14:30	16.55	0.228	9.29	7.66	No color/odor	-10.3		

Notes:

1. Field instruments must be calibrated in accordance with manufacturer specifications.
2. Bump tests should be performed before, during, and after field evaluation to confirm calibration.
3. If field conditions (e.g. barometric pressure, temperature, humidity) change significantly, recalibration should be
4. All field calibrations must be documented.

Rev. 09/30/2015 ED

Subtask B
SW/SED

4

ATC ASSOCIATES INC.

LANDFILL GAS SURVEY SAMPLING

Project #:	Project Name: CARY DUMP	Page: 1 of 2
Sampled by: Robert BRODA / ANDY Mcmillion	Weather Conditions: SUNNY IN 60'S	Date: 10-23-2015

Sample ID#	Time	PID	CH_4		CO_2	O_2	H_2S	Barometric Pressure	Relative Humidity	Temp
		(ppm)	(%Vol)	(%LEL)	(%Vol)	(%Vol)	(ppm)	(inches Hg)	(%)	(°F)
SV-1	1022	0.0	00.0	0	00.0	20.5	0	29.70	49.18	75.38
DUP-1 (SV-1)	1026	0.0	00.0	0	00.0	20.5	0	29.70	49.24	76.28
SV-2	1030	0.0	00.0	0	00.0	20.4	0	29.70	49.98	76.04
SV-3	1032	0.0	00.0	0	00.0	20.4	0	29.70	55.90	74.20
SV-4	1035	0.0	00.0	0	00.0	20.1	0	29.70	51.64	75.77
SV-5	1055	0.0	00.0	0	00.0	20.4	0	29.68	53.40	76.13
SV-6	1100	0.0	00.0	0	00.0	20.4	0	29.68	61.03	76.17
SV-7	1105	0.0	00.0	0	00.0	20.4	0	29.68	49.29	99.39
SV-8	1109	0.0	00.0	0	00.0	20.4	0	29.68	50.94	74.90
SV-9	1114	0.0	00.0	0	00.0	20.4	0	29.68	49.52	75.48
SV-10	1120	0.0	00.0	0	00.0	20.4	0	29.68	45.75	77.82
SV-11	1125	0.0	00.0	0	00.0	20.4	0	29.68	45.97	79.62
SV-12 *	1130	0.0	00.0	* 1%	00.0	20.4	0	29.68	55.01	73.77
SV-13 *	1140	0.0	00.0	* 1%	00.0	20.2	0	29.64	42.53	81.68
SV-14 *	1145	0.0	00.0	* 1%	00.0	20.3	0	29.64	43.91	80.99
SV-15 *	1150	0.0	00.0	* 1%	00.0	20.3	0	29.64	43.52	83.24
SV-16 *	1155	0.0	00.0	* 1%	00.0	20.3	0	29.64	42.18	87.40
SV-17 *	1340	0.0	00.0	* 1%	00.0	20.4	0	29.58	31.96	92.49
SV-18	1345	0.0	00.0	0	00.0	20.4	0	29.58	41.68	82.14
SV-19	1347	0.0	00.0	0	00.0	20.5	0	29.58	43.84	79.23
SV-20	1349	0.0	00.0	0	00.0	20.5	0	29.58	47.90	77.64
SV-21	1351	0.0	00.0	0	00.0	20.6	0	29.58	41.08	79.23
SV-22	1353	0	00.0	0	00.0	20.6	0	29.58	43.39	81.96
SV-23	1355	0	00.0	0	00.0	20.7	0	29.58	40.57	83.48
SV-24	1357	0	00.0	0	00.0	20.7	0	29.58	39.47	84.48
SV-25	1359	0	00.0	0	00.0	20.7	0	29.58	42.08	83.55
SV-26	1401	0	00.0	0	00.0	20.8	0	29.58	43.03	83.51
SV-27	1403	0	00.0	0	00.0	20.9	0	29.58	39.12	84.34
SV-28	1405	0	00.0	0	00.0	20.9	0	29.58	39.38	84.21

* Vac truck dumping Waste (raw Sewage) upwind of location
↳ CH_4 (%LEL) READING WAS Detected with ~~[illegible]~~ multi Ray AND NOT Detected with the GEM 2000+

LANDFILL GAS SURVEY SAMPLING

Project #:	Project Name: Cary landfill	Page: 2 of 2
Sampled by: Andrew McMillan / Brad Brady	Weather Conditions: Sunny in 60's °F	Date: 10-23-2015

Sample ID#	Time	PID	CH_4		CO_2	O_2	H_2S	Barometric Pressure	Relative Humidity	Temp
		(ppm)	(%Vol)	(%LEL)	(%Vol)	(%Vol)	(ppm)	(inches Hg)	(%)	(°F)
SV-29	1407	0	00.0	0	00.0	20.8	0	29.58	38.30	85.31
SV-30	1409	0	00.0	0	00.0	20.9	0	29.58	39.94	83.67
SV-31	1411	0	00.0	0	00.0	21.0	0	29.58	38.38	83.76
SV-32	1413	0	00.0	0	00.0	20.8	0	29.58	39.23	84.41
SV-33	1415	0	00.0	0	00.0	20.9	0	29.58	40.16	83.66
SV-34	1417	0	00.0	0	00.0	20.9	0	29.58	42.22	81.26
SV-35	1419	0	00.0	0	00.0	20.8	0	29.58	58.71	84.36
SV-36	1421	0	00.0	0	00.0	20.8	0	29.58	44.00	84.96
SV-37	1423	0	00.0	0	00.0	20.9	0	29.58	45.99	82.18
SV-38	1425	0	00.0	0	00.0	21.0	0	29.58	46.38	85.89
SV-39	1427	0	00.0	0	00.0	20.9	0	29.58	41.43	86.73
SV-40	1429	0	00.0	0	00.0	20.7	0	29.58	47.39	90.14
SV-41	1431	0	00.0	0	00.0	20.7	0	29.58	45.05	85.89
SV-42	1433	0	00.0	0	00.0	20.7	0	29.58	45.65	87.11
SV-43	1435	0	00.0	0	00.0	20.7	0	29.58	40.47	85.28
SV-44	1437	0	00.0	0	00.0	20.7	0	29.58	45.34	86.93
SV-45	1439	0	00.0	0	00.0	20.8	0	29.58	43.56	82.79
SV-46	1441	0	00.0	0	00.0	20.6	0	29.58	43.04	84.57
Upwind	1444	0	00.0	0	00.0	20.7	0	29.58	40.19	84.39

multiple bump test conducted throughout day

GEM-17040 Factory calibration 10-20-15
2000
~~Air~~ multiRae Plus
PGM-50-5P
095-52544

Factory last calibrated Pim: 8-3-15

PINE

ORDER CONFIRMATION — RENTAL

Pine Environmental Services LLC
8411 Garvey Drive, Suite 113
Raleigh, NC - 27616
Main: (919) 713-0008 Toll Free: (866) 646-7463
Fax: (919) 878-1122
www.pine-environmental.com

Order Date
10/14/15

Order #
C039593

Ship Date
10/19/15

Requested Date
101415

Begin Date
10/20/15

Requested Time

Customer
Cardno ATC
2725 E Millbrook Rd., Suite 121
RALEIGH, NC - 27604
United States

Ship To
Cardno ATC
2725 East Millbrook Rd.
Suite 121
RALEIGH, NC - 27604
United States
Attn: JUSTIN BALLARD
Phone: 252-548-9191

Prepared By
Brian Duke

Email:JUSTIN.BALLARD@CARDNO.COM

Customer #
20900016

Project #

Payment Terms
Net 30 Days

Ordered By
JUSTIN BALLARD
252-548-9191

Currency
USD US Dollar

Purchase Order #
4373

Delivery Method
Pine Driver

Item #	Type	Description	Qty	U/M	Whse
51617	RENTAL	Hach 2100Q Turbidimeter	30424	EA	R41

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
8411 Garvey Drive, Suite 113
Raleigh, NC 27614
Toll-free: (866) 646-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 17040
Description Gem 2000+
Calibrated 10/20/2015 2:48:12PM

Manufacturer CES Landtec
Model Number GEM2000+
Serial Number/ Lot Number GM12805\10
Location North Carolina
Department

State Certified
Status Pass
Temp °C 24
Humidity % 25

Calibration Specifications

Group # 1
Group Name Methane
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
50.00 / 50.00	%Volume	50.00	%Volume	50.00	50.00	0.00%	Pass

Group # 2
Group Name Carbon Dioxide
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
35.00 / 35.00	%Volume	35.00	%Volume	35.00	35.00	0.00%	Pass

Group # 3
Group Name Oxygen
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
20.90 / 20.90	%Volume	20.90	%Volume	20.90	20.90	0.00%	Pass

Group # 4
Group Name Carbon Monoxide
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
50.00 / 50.00	PPM	50.00	PPM	50.00	50.00	0.00%	Pass

Group # 5
Group Name Hydrogen Sulfide
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
25.00 / 25.00	PPM	25.00	PPM	25.00	25.00	0.00%	Pass

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

8411 Garvey Drive, Suite 113
Raleigh, NC 27614
Toll-free: (866) 646-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 17040
Description Gem 2000+
Calibrated 10/20/2015 2:48:12PM

Test Instruments Used During the Calibration **(As Of Cal Entry Date)**

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NC 4 GAS MAO-412-3 EXP 5/16	NC 4 GAS MIX LOT CAO-412.4	Calgaz	GP 12089	MA0-412-3		5/18/2016
NC 50/35 CO2 LOT 1027FB12 11/16	NC 50 CH4/35 CO2	American Gas Group	GP 12126			11/30/2016

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Brian Duke

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

PINE

ORDER CONFIRMATION

SALES

Pine Environmental Services LLC
8411 Garvey Drive, Suite 113
Raleigh, NC - 27616
Main: (919) 713-0008 Toll Free: (866) 646-7463
Fax: (919) 878-1122
www.pine-environmental.com

Order Date
10/14/15
Ship Date
10/16/15

Order #
C039591
Requested Date
101415
Requested Time

Customer
Cardno ATC
2725 E Millbrook Rd., Suite 121
RALEIGH, NC - 27604
United States

Ship To
Cardno ATC
2725 East Millbrook Rd.
Suite 121
RALEIGH, NC - 27604
United States
Attn: JUSTIN BALLARD
Phone: 252-548-9191

Prepared By
Brian Duke

Email:JUSTIN.BALLARD@CARDNO.COM

Customer #
20900016
Currency
USD US Dollar

Project #

Purchase Order #
4373

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
JUSTIN BALLARD
252-548-9191

Item #	Type	Description	Qty	U/M	Whse
74282	SALES	Tubing; HDPE 1/2" ID x 5/8" OD - 100' Roll	1	ROL	S41

PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
8411 Garvey Drive, Suite 113
Raleigh, NC - 27616
Main: (919) 713-0008 Toll Free: (866) 646-7463
Fax: (919) 878-1122
www.pine-environmental.com

Order Date
10/14/15
Ship Date
10/21/15
Begin Date
10/22/15

Order #
C039592
Requested Date
101415
Requested Time

Customer
Cardno ATC
2725 E Millbrook Rd., Suite 121
RALEIGH, NC - 27604
United States

Ship To
Cardno ATC
2725 East Millbrook Rd.
Suite 121
RALEIGH, NC - 27604
United States
Attn: JUSTIN BALLARD
Phone: 252-548-9191

Prepared By
Brian Duke

Email:JUSTIN.BALLARD@CARDNO.COM

Customer #
20900016
Currency
USD US Dollar

Project #

Purchase Order #
4373

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
JUSTIN BALLARD
252-548-9191

Item #	Type	Description	Qty	U/M	Whse
51155	RENTAL	Landfill Meter- GEM2000 PLUS	1	EA	R41
90140	RENTAL	Cal Kit - Std - 103/105L Regulator/Gas/Tedlar Bag	1	EA	R41
90141	RENTAL	Cal Kit - Std - 17LRegulator/Gas/Tedlar Bag	1	EA	R41

ATC ASSOCIATES OF NORTH CAROLINA, P.C.
Engineering Individual Solutions

Air Monitoring Instrument Calibration Log

2725 East Millbrook Road
Suite 121
Raleigh, NC 27604
Tel: 919-871-0999
Fax: 919-871-0335
www.atcassociates.com
N.C. Engineering License No. C-1598

Date and Time	Instrument Manufacturer, Model #, & Serial #	Factory Calibration Date	Detection Limit (specify units)	Battery Check OK?	Zero Calibration Reading (ppm)	Calibration Gas Composition and Concentration	Calibration Gas Expiration Date	Calibration Gas Reading (ppm)	Type of Calibration (e.g. bump test, before, during, after evaluation)	Personnel Performing Calibration	Parameters Calibrated
9-23-15 10:00 AM	Gem-17040 2000	10-20-15	~~Alt~~ Am ~~0-100 OK ppm~~	✓	OK	CH4 50% O2 20.9% H2S 25ppm CO2 35%		50 25 20.9 35	Cal. before	AM+RB	
9-23-15 10:00 AM	Multi Rae Plus PGM-50-SP 095-521544	8-3-15	0-1000 ppm	✓	0	Isobutylene 100ppm		100	before	AM+RB	

Notes:

1. Field instruments must be calibrated in accordance with manufacturer specifications.
2. Bump tests should be performed before, during, and after field evaluation to confirm calibration.
3. If field conditions (e.g. barometric pressure, temperature, humidity) change significantly, recalibration should be completed and documented.
4. All field calibrations must be documented.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 2, 2015

Justin Ballard
Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604

Project Location: Cary Dump
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15J1116

Enclosed are results of analyses for samples received by the laboratory on October 22, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 11/2/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15J1116

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Cary Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TMW-2	15J1116-01	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 7470A

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Mercury
B134095-BSD1

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Isophorone
B133847-BLK1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
15J1116-01[TMW-2], B133847-BLK1, B133847-BS1, B133847-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B133847-BS1

Benzaldehyde
B133847-BS1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
15J1116-01[TMW-2], B133847-BLK1, B133847-BS1, B133847-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B133847-BS1, B133847-BSD1

2,4-Dinitrophenol
B133847-BS1, B133847-BSD1

Atrazine
B133847-BS1, B133847-BSD1

Hexachlorobenzene
B133847-BS1, B133847-BSD1

Hexachlorobutadiene
B133847-BS1, B133847-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
15J1116-01[TMW-2], B133847-BLK1, B133847-BS1, B133847-BSD1

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
15J1116-01[TMW-2], B133847-BLK1

2,4-Dinitrophenol
15J1116-01[TMW-2], B133847-BLK1

Atrazine
15J1116-01[TMW-2], B133847-BLK1

Hexachlorobenzene
15J1116-01[TMW-2], B133847-BLK1

Hexachlorobutadiene
15J1116-01[TMW-2], B133847-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1116
Date Received: 10/22/2015
Field Sample #: TMW-2
Sampled: 10/22/2015 09:00
Sample ID: 15J1116-01
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1116
Date Received: 10/22/2015
Field Sample #: TMW-2
Sampled: 10/22/2015 09:00
Sample ID: 15J1116-01
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:56	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	35.9		15-110		10/28/15 17:56
Phenol-d6	23.1		15-110		10/28/15 17:56
Nitrobenzene-d5	78.6		30-130		10/28/15 17:56
2-Fluorobiphenyl	101		30-130		10/28/15 17:56
2,4,6-Tribromophenol	**142**	*	15-110	S-07	10/28/15 17:56
p-Terphenyl-d14	108		30-130		10/28/15 17:56

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1116

Date Received: 10/22/2015

Field Sample #: TMW-2
Sampled: 10/22/2015 09:00

Sample ID: 15J1116-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Arsenic	1.1	0.80	0.59	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Beryllium	0.12	0.80	0.12	µg/L	2	J	SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Chromium	2.7	2.0	0.89	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Copper	4.2	10	0.37	µg/L	2	J	SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Iron	3300	100	21	µg/L	2		SW-846 6020A	10/28/15	10/30/15 11:06	MJH
Lead	2.1	2.0	0.11	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Manganese	3900	2.0	0.23	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:18	SCB
Nickel	9.3	10	1.6	µg/L	2	J	SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Selenium	2.2	10	1.5	µg/L	2	J	SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/28/15	10/29/15 17:29	MJH
Zinc	7.6	20	6.6	µg/L	2	J	SW-846 6020A	10/28/15	10/29/15 17:29	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1116

Date Received: 10/22/2015

Field Sample #: TMW-2
Sampled: 10/22/2015 09:00

Sample ID: 15J1116-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/29/15	10/29/15 18:20	AG
Sulfate	9.0	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/30/15	10/30/15 15:30	AG

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-90, 02

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1116-01 [TMW-2]	B134273	100	100	10/30/15

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1116-01 [TMW-2]	B134172	25.0	25.0	10/29/15

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1116-01 [TMW-2]	B134047	50.0	50.0	10/28/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1116-01 [TMW-2]	B134095	6.00	6.00	10/29/15

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1116-01 [TMW-2]	B133847	1000	1.00	10/27/15

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133847 - SW-846 3510C										
Blank (B133847-BLK1)				Prepared: 10/27/15 Analyzed: 10/28/15						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							V-20
Atrazine	ND	20	µg/L							V-20
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19, V-20
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							V-20
Hexachlorobutadiene	ND	10	µg/L							V-20
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	3.6	10	µg/L							J, B
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B133847 - SW-846 3510C											
Blank (B133847-BLK1)				Prepared: 10/27/15 Analyzed: 10/28/15							
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*77.0*		µg/L	200		38.5		15-110			
Surrogate: Phenol-d6	*46.7*		µg/L	200		23.4		15-110			
Surrogate: Nitrobenzene-d5	*81.0*		µg/L	100		81.0		30-130			
Surrogate: 2-Fluorobiphenyl	*99.5*		µg/L	100		99.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*268*		µg/L	200		**134**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*113*		µg/L	100		113		30-130			
LCS (B133847-BS1)				Prepared: 10/27/15 Analyzed: 10/28/15							
2,3,4,6-Tetrachlorophenol	140	20	µg/L	100		140		40-140			V-06
Atrazine	140	20	µg/L	100		140		40-140			V-06
Benzaldehyde	64.4	10	µg/L	100		64.4		40-140			L-07
Biphenyl	117	20	µg/L	100		117		40-140			
Caprolactam	19.0	10	µg/L	100		**19.0**	*	40-140			L-04
Acenaphthene	99.8	5.0	µg/L	100		99.8		40-140			
Acenaphthylene	99.9	5.0	µg/L	100		99.9		40-140			
Acetophenone	89.2	10	µg/L	100		89.2		40-140			
Anthracene	99.4	5.0	µg/L	100		99.4		40-140			
Benzo(a)anthracene	100	5.0	µg/L	100		100		40-140			
Benzo(a)pyrene	108	5.0	µg/L	100		108		40-140			
Benzo(b)fluoranthene	105	5.0	µg/L	100		105		40-140			
Benzo(g,h,i)perylene	92.2	5.0	µg/L	100		92.2		40-140			
Benzo(k)fluoranthene	106	5.0	µg/L	100		106		40-140			
Bis(2-chloroethoxy)methane	86.2	10	µg/L	100		86.2		40-140			
Bis(2-chloroethyl)ether	85.0	10	µg/L	100		85.0		40-140			
Bis(2-Ethylhexyl)phthalate	110	10	µg/L	100		110		40-140			
4-Bromophenylphenylether	120	10	µg/L	100		120		40-140			
Butylbenzylphthalate	102	10	µg/L	100		102		40-140			
Carbazole	95.8	10	µg/L	100		95.8		40-140			
4-Chloroaniline	68.0	10	µg/L	100		68.0		40-140			
4-Chloro-3-methylphenol	90.5	10	µg/L	100		90.5		30-130			
2-Chloronaphthalene	91.0	10	µg/L	100		91.0		40-140			
2-Chlorophenol	82.2	10	µg/L	100		82.2		30-130			
4-Chlorophenylphenylether	118	10	µg/L	100		118		40-140			
Chrysene	103	5.0	µg/L	100		103		40-140			
Dibenz(a,h)anthracene	105	5.0	µg/L	100		105		40-140			
Dibenzofuran	108	5.0	µg/L	100		108		40-140			
Di-n-butylphthalate	101	10	µg/L	100		101		40-140			
3,3-Dichlorobenzidine	99.8	10	µg/L	100		99.8		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133847 - SW-846 3510C												
LCS (B133847-BS1)				Prepared: 10/27/15 Analyzed: 10/28/15								
2,4-Dichlorophenol	103	10	µg/L	100		103		30-130				
Diethylphthalate	110	10	µg/L	100		110		40-140				
2,4-Dimethylphenol	83.3	10	µg/L	100		83.3		30-130				
Dimethylphthalate	108	10	µg/L	100		108		40-140				
4,6-Dinitro-2-methylphenol	108	10	µg/L	100		108		30-130				
2,4-Dinitrophenol	134	10	µg/L	100		**134**	*	30-130			L-07, V-06, V-19	
2,4-Dinitrotoluene	117	10	µg/L	100		117		40-140				
2,6-Dinitrotoluene	112	10	µg/L	100		112		40-140				
Di-n-octylphthalate	108	10	µg/L	100		108		40-140				
Fluoranthene	104	5.0	µg/L	100		104		40-140				
Fluorene	109	5.0	µg/L	100		109		40-140				
Hexachlorobenzene	129	10	µg/L	100		129		40-140			V-06	
Hexachlorobutadiene	118	10	µg/L	100		118		40-140			V-06	
Hexachlorocyclopentadiene	77.9	10	µg/L	100		77.9		30-140				†
Hexachloroethane	89.6	10	µg/L	100		89.6		40-140				
Indeno(1,2,3-cd)pyrene	103	5.0	µg/L	100		103		40-140				
Isophorone	91.7	10	µg/L	100		91.7		40-140				
2-Methylnaphthalene	99.8	5.0	µg/L	100		99.8		40-140				
2-Methylphenol	62.6	10	µg/L	100		62.6		30-130				
3/4-Methylphenol	62.5	10	µg/L	100		62.5		30-130				
Naphthalene	95.1	5.0	µg/L	100		95.1		40-140				
2-Nitroaniline	79.8	10	µg/L	100		79.8		40-140				
3-Nitroaniline	74.3	10	µg/L	100		74.3		40-140				
4-Nitroaniline	86.2	10	µg/L	100		86.2		40-140				
Nitrobenzene	80.5	10	µg/L	100		80.5		40-140				
2-Nitrophenol	98.1	10	µg/L	100		98.1		30-130				
4-Nitrophenol	50.0	10	µg/L	100		50.0		10-130				†
N-Nitrosodiphenylamine	125	10	µg/L	100		125		40-140				
N-Nitrosodi-n-propylamine	81.2	10	µg/L	100		81.2		40-140				
Pentachlorophenol	96.7	10	µg/L	100		96.7		30-130				
Phenanthrene	101	5.0	µg/L	100		101		40-140				
Phenol	32.5	10	µg/L	100		32.5		20-130				†
Pyrene	107	5.0	µg/L	100		107		40-140				
1,2,4,5-Tetrachlorobenzene	111	10	µg/L	100		111		40-140				
2,4,5-Trichlorophenol	112	10	µg/L	100		112		30-130				
2,4,6-Trichlorophenol	114	10	µg/L	100		114		30-130				
Surrogate: 2-Fluorophenol	*92.8*		µg/L	200		46.4		15-110				
Surrogate: Phenol-d6	*58.9*		µg/L	200		29.4		15-110				
Surrogate: Nitrobenzene-d5	*88.5*		µg/L	100		88.5		30-130				
Surrogate: 2-Fluorobiphenyl	*115*		µg/L	100		115		30-130				
Surrogate: 2,4,6-Tribromophenol	*345*		µg/L	200		**172**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*125*		µg/L	100		125		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133847 - SW-846 3510C												
LCS Dup (B133847-BSD1)				Prepared: 10/27/15 Analyzed: 10/28/15								
2,3,4,6-Tetrachlorophenol	134	20	µg/L	100		134		40-140	4.63	20	V-06	
Atrazine	124	20	µg/L	100		124		40-140	11.6	20	V-06	
Benzaldehyde	59.0	10	µg/L	100		59.0		40-140	8.75	20		
Biphenyl	114	20	µg/L	100		114		40-140	2.55	20		
Caprolactam	18.0	10	µg/L	100		**18.0**	*	40-140	4.98	20	L-04	
Acenaphthene	96.4	5.0	µg/L	100		96.4		40-140	3.54	20		
Acenaphthylene	96.7	5.0	µg/L	100		96.7		40-140	3.25	20		
Acetophenone	86.1	10	µg/L	100		86.1		40-140	3.60	20		
Anthracene	98.6	5.0	µg/L	100		98.6		40-140	0.717	20		
Benzo(a)anthracene	99.4	5.0	µg/L	100		99.4		40-140	1.05	20		
Benzo(a)pyrene	104	5.0	µg/L	100		104		40-140	4.12	20		
Benzo(b)fluoranthene	101	5.0	µg/L	100		101		40-140	4.66	20		
Benzo(g,h,i)perylene	90.1	5.0	µg/L	100		90.1		40-140	2.30	20		
Benzo(k)fluoranthene	101	5.0	µg/L	100		101		40-140	4.73	20		
Bis(2-chloroethoxy)methane	83.7	10	µg/L	100		83.7		40-140	2.99	20		
Bis(2-chloroethyl)ether	82.6	10	µg/L	100		82.6		40-140	2.84	20		
Bis(2-Ethylhexyl)phthalate	98.0	10	µg/L	100		98.0		40-140	11.2	20		
4-Bromophenylphenylether	117	10	µg/L	100		117		40-140	2.31	20		
Butylbenzylphthalate	94.3	10	µg/L	100		94.3		40-140	7.57	20		
Carbazole	94.3	10	µg/L	100		94.3		40-140	1.56	20		
4-Chloroaniline	68.2	10	µg/L	100		68.2		40-140	0.250	20		
4-Chloro-3-methylphenol	87.2	10	µg/L	100		87.2		30-130	3.73	20		
2-Chloronaphthalene	90.8	10	µg/L	100		90.8		40-140	0.209	20		
2-Chlorophenol	81.9	10	µg/L	100		81.9		30-130	0.329	20		
4-Chlorophenylphenylether	113	10	µg/L	100		113		40-140	4.75	20		
Chrysene	99.3	5.0	µg/L	100		99.3		40-140	3.91	20		
Dibenz(a,h)anthracene	95.8	5.0	µg/L	100		95.8		40-140	9.06	20		
Dibenzofuran	104	5.0	µg/L	100		104		40-140	3.91	20		
Di-n-butylphthalate	92.4	10	µg/L	100		92.4		40-140	8.99	20		
3,3-Dichlorobenzidine	96.2	10	µg/L	100		96.2		40-140	3.65	20		
2,4-Dichlorophenol	100	10	µg/L	100		100		30-130	3.04	20		
Diethylphthalate	100	10	µg/L	100		100		40-140	8.90	20		
2,4-Dimethylphenol	76.3	10	µg/L	100		76.3		30-130	8.74	20		
Dimethylphthalate	103	10	µg/L	100		103		40-140	4.87	50		‡
4,6-Dinitro-2-methylphenol	107	10	µg/L	100		107		30-130	1.08	50		‡
2,4-Dinitrophenol	104	10	µg/L	100		104		30-130	25.7	50	V-19, V-06	‡
2,4-Dinitrotoluene	109	10	µg/L	100		109		40-140	6.69	20		
2,6-Dinitrotoluene	107	10	µg/L	100		107		40-140	4.70	20		
Di-n-octylphthalate	98.0	10	µg/L	100		98.0		40-140	10.1	20		
Fluoranthene	101	5.0	µg/L	100		101		40-140	3.32	20		
Fluorene	103	5.0	µg/L	100		103		40-140	5.55	20		
Hexachlorobenzene	127	10	µg/L	100		127		40-140	1.62	20	V-06	
Hexachlorobutadiene	110	10	µg/L	100		110		40-140	6.52	20	V-06	
Hexachlorocyclopentadiene	77.8	10	µg/L	100		77.8		30-140	0.0771	50		† ‡
Hexachloroethane	84.0	10	µg/L	100		84.0		40-140	6.49	50		‡
Indeno(1,2,3-cd)pyrene	102	5.0	µg/L	100		102		40-140	1.50	50		‡
Isophorone	88.6	10	µg/L	100		88.6		40-140	3.41	20		
2-Methylnaphthalene	96.0	5.0	µg/L	100		96.0		40-140	3.94	20		
2-Methylphenol	62.3	10	µg/L	100		62.3		30-130	0.608	20		
3/4-Methylphenol	62.4	10	µg/L	100		62.4		30-130	0.176	20		
Naphthalene	91.1	5.0	µg/L	100		91.1		40-140	4.29	20		
2-Nitroaniline	77.8	10	µg/L	100		77.8		40-140	2.52	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133847 - SW-846 3510C												
LCS Dup (B133847-BSD1)				Prepared: 10/27/15 Analyzed: 10/28/15								
3-Nitroaniline	73.5	10	µg/L	100		73.5		40-140	1.10	20		
4-Nitroaniline	80.8	10	µg/L	100		80.8		40-140	6.45	20		
Nitrobenzene	79.4	10	µg/L	100		79.4		40-140	1.46	20		
2-Nitrophenol	95.4	10	µg/L	100		95.4		30-130	2.82	20		
4-Nitrophenol	47.1	10	µg/L	100		47.1		10-130	5.96	50		† ‡
N-Nitrosodiphenylamine	126	10	µg/L	100		126		40-140	0.144	20		
N-Nitrosodi-n-propylamine	79.2	10	µg/L	100		79.2		40-140	2.54	20		
Pentachlorophenol	88.3	10	µg/L	100		88.3		30-130	9.12	50		‡
Phenanthrene	99.7	5.0	µg/L	100		99.7		40-140	1.62	20		
Phenol	32.9	10	µg/L	100		32.9		20-130	1.22	20		†
Pyrene	102	5.0	µg/L	100		102		40-140	4.71	20		
1,2,4,5-Tetrachlorobenzene	108	10	µg/L	100		108		40-140	2.44	20		
2,4,5-Trichlorophenol	110	10	µg/L	100		110		30-130	1.32	20		
2,4,6-Trichlorophenol	109	10	µg/L	100		109		30-130	4.23	50		‡
Surrogate: 2-Fluorophenol	*90.7*		µg/L	200		45.3		15-110				
Surrogate: Phenol-d6	*60.2*		µg/L	200		30.1		15-110				
Surrogate: Nitrobenzene-d5	*85.7*		µg/L	100		85.7		30-130				
Surrogate: 2-Fluorobiphenyl	*111*		µg/L	100		111		30-130				
Surrogate: 2,4,6-Tribromophenol	*315*		µg/L	200		**158**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*114*		µg/L	100		114		30-130				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134047 - SW-846 3005A										
Blank (B134047-BLK1)				Prepared: 10/28/15 Analyzed: 10/29/15						
Antimony	ND	2.0	µg/L							
Arsenic	ND	0.80	µg/L							
Beryllium	ND	0.80	µg/L							
Cadmium	ND	1.0	µg/L							
Chromium	ND	2.0	µg/L							
Copper	ND	10	µg/L							
Iron	ND	100	µg/L							
Lead	ND	2.0	µg/L							
Manganese	ND	2.0	µg/L							
Nickel	ND	10	µg/L							
Selenium	ND	10	µg/L							
Silver	ND	1.0	µg/L							
Thallium	ND	0.40	µg/L							
Zinc	ND	20	µg/L							
LCS (B134047-BS1)				Prepared: 10/28/15 Analyzed: 10/29/15						
Antimony	257	5.0	µg/L	250		103	80-120			
Arsenic	262	2.0	µg/L	250		105	80-120			
Beryllium	273	2.0	µg/L	250		109	80-120			
Cadmium	267	2.5	µg/L	250		107	80-120			
Chromium	254	5.0	µg/L	250		102	80-120			
Copper	254	25	µg/L	250		102	80-120			
Iron	230	250	µg/L	250		92.1	80-120			J
Lead	255	5.0	µg/L	250		102	80-120			
Manganese	232	5.0	µg/L	250		92.6	80-120			
Nickel	242	25	µg/L	250		96.9	80-120			
Selenium	272	25	µg/L	250		109	80-120			
Silver	264	2.5	µg/L	250		106	80-120			
Thallium	242	1.0	µg/L	250		96.7	80-120			
Zinc	280	50	µg/L	250		112	80-120			
LCS Dup (B134047-BSD1)				Prepared: 10/28/15 Analyzed: 10/29/15						
Antimony	263	5.0	µg/L	250		105	80-120	2.38	20	
Arsenic	261	2.0	µg/L	250		104	80-120	0.588	20	
Beryllium	277	2.0	µg/L	250		111	80-120	1.53	20	
Cadmium	267	2.5	µg/L	250		107	80-120	0.0980	20	
Chromium	253	5.0	µg/L	250		101	80-120	0.639	20	
Copper	251	25	µg/L	250		100	80-120	1.13	20	
Iron	236	250	µg/L	250		94.4	80-120	2.50	20	J
Lead	253	5.0	µg/L	250		101	80-120	0.784	20	
Manganese	232	5.0	µg/L	250		93.0	80-120	0.416	20	
Nickel	243	25	µg/L	250		97.0	80-120	0.160	20	
Selenium	276	25	µg/L	250		110	80-120	1.55	20	
Silver	267	2.5	µg/L	250		107	80-120	1.30	20	
Thallium	241	1.0	µg/L	250		96.4	80-120	0.305	20	
Zinc	278	50	µg/L	250		111	80-120	0.511	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B134095 - SW-846 7470A Prep												
Blank (B134095-BLK1)				Prepared & Analyzed: 10/29/15								
Mercury	ND	0.00010	mg/L									
LCS (B134095-BS1)				Prepared & Analyzed: 10/29/15								
Mercury	0.00181	0.00010	mg/L	0.00200		90.5		80-120				
LCS Dup (B134095-BSD1)				Prepared & Analyzed: 10/29/15								
Mercury	0.00292	0.00010	mg/L	0.00200		**146**	*	80-120	**47.0**	*	20	L-07A

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134172 - SM 21-22 4500 NO3 F										
Blank (B134172-BLK1)				Prepared & Analyzed: 10/29/15						
Nitrate as N	ND	0.050	mg/L							
LCS (B134172-BS1)				Prepared & Analyzed: 10/29/15						
Nitrate as N	4.8		mg/L	4.97		97.0	88.9-111			
LCS Dup (B134172-BSD1)				Prepared & Analyzed: 10/29/15						
Nitrate as N	4.8		mg/L	4.97		95.6	88.9-111	1.46	5.66	
Batch B134273 - ASTM D516-90, 02										
Blank (B134273-BLK1)				Prepared & Analyzed: 10/30/15						
Sulfate	ND	2.0	mg/L							
LCS (B134273-BS1)				Prepared & Analyzed: 10/30/15						
Sulfate	22	2.0	mg/L	20.0		108	83.8-123			
LCS Dup (B134273-BSD1)				Prepared & Analyzed: 10/30/15						
Sulfate	21	2.0	mg/L	20.0		107	83.8-123	0.888	8.27	
Duplicate (B134273-DUP1)		**Source: 15J1116-01**		Prepared & Analyzed: 10/30/15						
Sulfate	9.0	2.0	mg/L		9.0			0.00	18	
Matrix Spike (B134273-MS1)		**Source: 15J1116-01**		Prepared & Analyzed: 10/30/15						
Sulfate	24	2.0	mg/L	20.0	9.0	77.6	37.4-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
ASTM D516-90, 02 in Water	
Sulfate	NY,NH,MA,CT,RI,VA,NC
SM 21-22 4500 NO3 F in Water	
Nitrate as N	CT,MA,NH,NY,RI,ME,NC,VA
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Copper	CT,NH,NY,NC,ME,VA
Iron	NC
Lead	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,NC,ME,VA
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

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East Longmeadow, MA 01028

15J1116

Company Name: CARDNO
Address: 2725 E MILLBROOK RD, Raleigh NC
Attention: Justin BALLARD
Project Location: CARY DUMP
Sampled By: Robert BRODA

Telephone: 919-871-0999
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: Justin.BALLARD@cardno.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection: ~~Beginning Date~~/Time	Collection: ~~Ending Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	SVOCs / 8270	ASTM D516 (Sulfate)	7470/7471 (Hg)	SW-846/6020 ★	SM 4500 (NITRATE)							# of Containers
01	TMW-2	9:00	10/22/15		✓	GW		X	X	X	X	X							** Preservation
																			***Container Code

Dissolved Metals
O Field Filtered
O Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: ★ Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Iron, lead, manganese, nickel, Selenium, silver, thallium, AND Zinc

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Robert	10/22/15 1435
Received by: (signature)	Date/Time:
Brent Rader	10/22/15 1435
Relinquished by: (signature)	Date/Time:
Brent Rader	10/22/15 1640
Received by: (signature)	Date/Time:
Kimberlee 20°C	10/23/15 9:36

Turnaround[**]
O 5-Day
O 5-7-Day
O 10-Day
RUSH[1]
O [1]24-Hr [1]48-Hr
O [1]72-Hr [1]4-Day
[1] Requires Lab Approval

Detection Limit Requirements
North Carolina
● 2L
O GWPC
● SWSL
O OTHER

Program Information
O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
● Other: LANDFILL

NELAC & AIHA Certified
WBE/DBE Certified

[**] TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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FedEx Ship Track Manage Learn FedEx Office ® Login

FedEx ® Tracking

774804005490

Ship date:
Thu 10/22/2015
Raleigh, NC US

Delivered
Signed for by: P.BLAKE

Actual delivery:
Fri 10/23/2015 9:36 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
10/23/2015 - Friday		
9:36 am	Delivered	EAST LONGMEADOW, MA
8:05 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:58 am	At local FedEx facility	WINDSOR LOCKS, CT
6:11 am	At destination sort facility	EAST GRANBY, CT
4:36 am	Departed FedEx location	INDIANAPOLIS, IN
12:00 am	Arrived at FedEx location	INDIANAPOLIS, IN
10/22/2015 - Thursday		
9:30 pm	Left FedEx origin facility	DURHAM, NC
5:55 pm	Shipment information sent to FedEx	
4:38 pm	Picked up	RALEIGH, NC

Shipment Facts

Tracking number	774804005490	**Service**	FedEx Priority Overnight
Weight	47 lbs / 21.32 kgs	**Dimensions**	24x14x14 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	47 lbs / 21.32 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge

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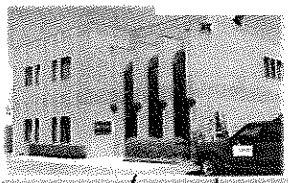

Sample Receipt Checklist

CLIENT NAME: Spangler **RECEIVED BY:** KKM **DATE:** 10/23/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [✓] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified Lucy Date _____ Time _____

7) Location where samples are stored: —

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: (Yes) No N/A _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic	1	SOC Kit	
250 mL plastic	2	Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KKM **Date/Time:** 10/23/15 9:36

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November 4, 2015

Justin Ballard
Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604

Project Location: Cary Dump
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15J1031

Enclosed are results of analyses for samples received by the laboratory on October 21, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 11/4/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15J1031

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Cary Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-4	15J1031-01	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-4	15J1031-02	Soil		ASTM D516-90, 02 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SW-3	15J1031-03	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-3	15J1031-04	Soil		ASTM D516-90, 02 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 11/4/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15J1031

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Cary Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-2	15J1031-05	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-2	15J1031-06	Soil		ASTM D516-90, 02 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SW-1	15J1031-07	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-1	15J1031-08	Soil		ASTM D516-90, 02 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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Cardno ATC Associates - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 11/4/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15J1031

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Cary Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-DUP A	15J1031-09	Ground Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-DUP A	15J1031-10	Soil		ASTM D516-90, 02 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
TMW-2	15J1031-11	Ground Water		SM19-22 4500 NH3 C	
				SW-846 8260B	
				SW-846 8260C	
TMW-RB	15J1031-12	Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SED-RB	15J1031-13	Water		ASTM D516-90, 02	
				SM 21-22 4500 NO3 F	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank-1	15J1031-14	Trip Blank Water		SW-846 8260B	
Trip Blank-Soil	15J1031-15	Trip Blank Soil		SW-846 8260B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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SW-846 6020A

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
15J1031-02[SED-4], B133568-MS1

Zinc
15J1031-02[SED-4], B133568-MS1

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chromium
15J1031-02[SED-4], B133568-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Iron
15J1031-02[SED-4], B133568-MS1

Manganese
15J1031-02[SED-4], B133568-MS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Antimony
15J1031-02[SED-4], B133568-DUP1

Copper
15J1031-02[SED-4], B133568-DUP1

Nickel
15J1031-02[SED-4], B133568-DUP1

SW-846 7470A

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Mercury
B134095-BSD1

SW-846 7471B

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Mercury
15J1031-02[SED-4], B133732-MS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Mercury
15J1031-02[SED-4], B133732-DUP1

SW-846 8260B

Qualifications:

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L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane
B134224-BS1, B134224-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,4-Dioxane
B134224-BS1, B134224-BSD1

Acetone
B133800-BS1, B133800-BSD1

Carbon Disulfide
B133800-BS1, B133800-BSD1

Dichlorodifluoromethane (Freon 1
B133800-BS1, B133800-BSD1

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Isophorone
15J1031-01[SW-4], 15J1031-03[SW-3], 15J1031-05[SW-2], B133847-BLK1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
15J1031-01[SW-4], 15J1031-03[SW-3], 15J1031-05[SW-2], 15J1031-07[SW-1], 15J1031-09[SW-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133847-BLK1, B133847-BS1, B133847-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B133847-BS1

Benzaldehyde
B133847-BS1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
15J1031-01[SW-4], 15J1031-02[SED-4], 15J1031-03[SW-3], 15J1031-05[SW-2], 15J1031-06[SED-2], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BS1, B133613-BSD1, B133847-BLK1, B133847-BS1, B133847-BSD1

p-Terphenyl-d14
15J1031-12[TMW-RB]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

Benzaldehyde
15J1031-02[SED-4], 15J1031-04[SED-3], 15J1031-06[SED-2], 15J1031-08[SED-1], 15J1031-10[SED-DUP A], B133613-BLK1, B133613-BS1, B133613-BSD1

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V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

B133613-BS1, B133613-BSD1, B133847-BS1, B133847-BSD1

2,4-Dinitrophenol

B133613-BS1, B133613-BSD1, B133847-BS1, B133847-BSD1

Atrazine

B133613-BS1, B133613-BSD1, B133847-BS1, B133847-BSD1

Hexachlorobenzene

B133613-BS1, B133613-BSD1, B133847-BS1, B133847-BSD1

Hexachlorobutadiene

B133847-BS1, B133847-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

15J1031-01[SW-4], 15J1031-02[SED-4], 15J1031-03[SW-3], 15J1031-04[SED-3], 15J1031-05[SW-2], 15J1031-06[SED-2], 15J1031-07[SW-1], 15J1031-08[SED-1], 15J1031-09[SW-DUP A], 15J1031-10[SED-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BLK1, B133613-BS1, B133613-BSD1, B133847-BLK1, B133847-BS1, B133847-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

15J1031-01[SW-4], 15J1031-02[SED-4], 15J1031-03[SW-3], 15J1031-04[SED-3], 15J1031-05[SW-2], 15J1031-06[SED-2], 15J1031-07[SW-1], 15J1031-08[SED-1], 15J1031-09[SW-DUP A], 15J1031-10[SED-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BLK1, B133847-BLK1

2,4-Dinitrophenol

15J1031-01[SW-4], 15J1031-02[SED-4], 15J1031-03[SW-3], 15J1031-04[SED-3], 15J1031-05[SW-2], 15J1031-06[SED-2], 15J1031-07[SW-1], 15J1031-08[SED-1], 15J1031-09[SW-DUP A], 15J1031-10[SED-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BLK1, B133847-BLK1

Atrazine

15J1031-01[SW-4], 15J1031-02[SED-4], 15J1031-03[SW-3], 15J1031-04[SED-3], 15J1031-05[SW-2], 15J1031-06[SED-2], 15J1031-07[SW-1], 15J1031-08[SED-1], 15J1031-09[SW-DUP A], 15J1031-10[SED-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BLK1, B133847-BLK1

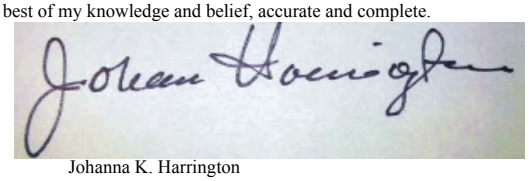
Hexachlorobenzene

15J1031-01[SW-4], 15J1031-03[SW-3], 15J1031-05[SW-2], 15J1031-07[SW-1], 15J1031-09[SW-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133613-BLK1, B133847-BLK1

Hexachlorobutadiene

15J1031-01[SW-4], 15J1031-03[SW-3], 15J1031-05[SW-2], 15J1031-07[SW-1], 15J1031-09[SW-DUP A], 15J1031-12[TMW-RB], 15J1031-13[SED-RB], B133847-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2-Dichlorobenzene	0.18	1.0	0.076	µg/L	1	J	SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 5:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		10/31/15 5:56
Toluene-d8	101	70-130		10/31/15 5:56
4-Bromofluorobenzene	95.8	70-130		10/31/15 5:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-4
Sampled: 10/21/2015 10:45

Sample ID: 15J1031-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 15:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	83.8	40-160		10/30/15 15:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump | Sample Description: | Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-4 | Sampled: 10/21/2015 10:45

Sample ID: 15J1031-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-01
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Isophorone	3.5	10	1.8	µg/L	1	J, B	SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:10	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	41.8		15-110		10/28/15 15:10
Phenol-d6	25.9		15-110		10/28/15 15:10
Nitrobenzene-d5	86.2		30-130		10/28/15 15:10
2-Fluorobiphenyl	104		30-130		10/28/15 15:10
2,4,6-Tribromophenol	**143**	*	15-110	S-07	10/28/15 15:10
p-Terphenyl-d14	122		30-130		10/28/15 15:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-01
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Arsenic	1.1	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Copper	3.5	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Iron	1000	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Lead	0.63	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Manganese	200	2.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:04	SCB
Nickel	3.5	10	1.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:23	MJH
Zinc	16	20	6.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:23	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-4
Sampled: 10/21/2015 10:45

Sample ID: 15J1031-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.2	0.30	0.22	mg/L	1		SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK
Nitrate as N	0.53	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	10	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/26/15	10/26/15 16:15	AG

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.029	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Benzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Bromobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Bromochloromethane	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Bromodichloromethane	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Bromoform	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Bromomethane	ND	0.012	0.0021	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
2-Butanone (MEK)	ND	0.050	0.022	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Carbon Disulfide	ND	0.0075	0.0041	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Chlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Chlorodibromomethane	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Chloroform	ND	0.0050	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Cyclohexane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,1-Dichloroethane	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,1-Dichloroethylene	ND	0.0050	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,4-Dioxane	ND	0.12	0.072	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Methylene Chloride	ND	0.025	0.0089	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0095	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Styrene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Tetrachloroethylene	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Trichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
Vinyl Chloride	ND	0.012	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
m+p Xylene	ND	0.0050	0.0021	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF
o-Xylene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		10/26/15 17:04
Toluene-d8	103	70-130		10/26/15 17:04
4-Bromofluorobenzene	97.2	70-130		10/26/15 17:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	10/30/15	10/30/15 12:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	130	40-160		10/30/15 12:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.83	0.42	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1	V-04	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Biphenyl	ND	0.83	0.52	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Acetophenone	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzo(a)anthracene	0.31	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzo(a)pyrene	0.32	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzo(b)fluoranthene	0.47	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzo(g,h,i)perylene	0.22	0.21	0.093	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Benzo(k)fluoranthene	0.19	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Bis(2-chloroethyl)ether	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Bis(2-Ethylhexyl)phthalate	0.20	0.42	0.16	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Butylbenzylphthalate	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Carbazole	0.058	0.21	0.054	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Chloroaniline	ND	0.81	0.096	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Chloro-3-methylphenol	ND	0.81	0.090	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Chloronaphthalene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Chrysene	0.42	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Dibenzofuran	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4-Dichlorophenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4-Dimethylphenol	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Dimethylphthalate	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4-Dinitrotoluene	ND	0.42	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,6-Dinitrotoluene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Fluoranthene	0.85	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Hexachlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Hexachlorobutadiene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Hexachlorocyclopentadiene	ND	0.42	0.089	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Hexachloroethane	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-4
Sampled: 10/21/2015 10:45
Sample ID: 15J1031-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	0.27	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Nitrobenzene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
4-Nitrophenol	ND	0.81	0.091	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Phenanthrene	0.30	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Phenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Pyrene	0.74	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4,5-Trichlorophenol	ND	0.42	0.095	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 19:44	BGL
Atrazine	ND	0.83	0.70	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 19:44	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	85.7		30-130		10/27/15 19:44
Phenol-d6	84.6		30-130		10/27/15 19:44
Nitrobenzene-d5	83.3		30-130		10/27/15 19:44
2-Fluorobiphenyl	103		30-130		10/27/15 19:44
2,4,6-Tribromophenol	**138**	*	30-130	S-07	10/27/15 19:44
p-Terphenyl-d14	117		30-130		10/27/15 19:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-4
Sampled: 10/21/2015 10:45

Sample ID: 15J1031-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.79	3.1	0.029	mg/Kg dry	5	J, MS-07, R-04	SW-846 6020A	10/22/15	10/28/15 10:41	KSH
Arsenic	1.7	0.29	0.22	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Beryllium	0.16	0.39	0.032	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Chromium	15	7.1	0.45	mg/Kg dry	5	MS-11	SW-846 6020A	10/22/15	10/28/15 10:41	KSH
Copper	9.1	7.1	0.074	mg/Kg dry	5	R-04	SW-846 6020A	10/22/15	10/28/15 12:42	MJH
Iron	17000	14	6.3	mg/Kg dry	5	MS-19	SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Lead	13	2.9	0.059	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Manganese	110	7.4	0.097	mg/Kg dry	5	MS-19	SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Mercury	0.074	0.029	0.0048	mg/Kg dry	1	MS-07, R-02	SW-846 7471B	10/24/15	10/27/15 14:21	SCB
Nickel	3.9	7.1	0.15	mg/Kg dry	5	J, R-04	SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Silver	0.057	0.13	0.041	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Thallium	ND	0.091	0.026	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:41	WSD
Zinc	51	14	0.22	mg/Kg dry	5	MS-07	SW-846 6020A	10/22/15	10/28/15 10:41	KSH
Cadmium	0.10	0.54	0.025	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:41	WSD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-4
Sampled: 10/21/2015 10:45

Sample ID: 15J1031-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	28	29	21	mg/Kg dry	1	J	SM21-22 4500 NH3 C Modified	10/28/15	10/28/15 15:50	VAK
Nitrate as N	2.5	2.4	2.4	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	10/27/15	10/27/15 13:50	AG
Sulfate	ND	200	39	mg/Kg dry	1		ASTM D516-90, 02 Modified	10/28/15	10/28/15 16:45	AG
% Solids	81.0			% Wt	1		SM 2540G	10/22/15	10/23/15 10:49	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		10/31/15 6:27
Toluene-d8	101	70-130		10/31/15 6:27
4-Bromofluorobenzene	94.8	70-130		10/31/15 6:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 15:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	108	40-160		10/30/15 15:38

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Isophorone	4.1	10	1.8	µg/L	1	J, B	SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:34	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	42.3		15-110		10/28/15 15:34
Phenol-d6	26.5		15-110		10/28/15 15:34
Nitrobenzene-d5	88.9		30-130		10/28/15 15:34
2-Fluorobiphenyl	103		30-130		10/28/15 15:34
2,4,6-Tribromophenol	**140**	*	15-110	S-07	10/28/15 15:34
p-Terphenyl-d14	115		30-130		10/28/15 15:34

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-03
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Arsenic	0.95	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Copper	2.0	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Iron	390	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Lead	0.28	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Manganese	17	2.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:09	SCB
Nickel	2.3	10	1.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:33	MJH
Zinc	7.1	20	6.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:33	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-3
Sampled: 10/21/2015 12:30

Sample ID: 15J1031-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.22	mg/L	1		SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK
Nitrate as N	0.43	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	6.2	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/26/15	10/26/15 16:15	AG

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	0.032	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Benzene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Bromobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Bromochloromethane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Bromodichloromethane	ND	0.0027	0.00082	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Bromoform	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Bromomethane	ND	0.014	0.0023	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
2-Butanone (MEK)	ND	0.055	0.024	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Carbon Disulfide	ND	0.0082	0.0045	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Carbon Tetrachloride	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Chlorobenzene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Chlorodibromomethane	ND	0.0014	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Chloroethane	ND	0.027	0.0021	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Chloroform	ND	0.0055	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Chloromethane	ND	0.014	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Cyclohexane	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2-Dichlorobenzene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,3-Dichlorobenzene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,4-Dichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,1-Dichloroethane	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2-Dichloroethane	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,1-Dichloroethylene	ND	0.0055	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
cis-1,2-Dichloroethylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
trans-1,2-Dichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2-Dichloropropane	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,4-Dioxane	ND	0.14	0.079	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Ethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
2-Hexanone (MBK)	ND	0.027	0.015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Isopropylbenzene (Cumene)	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Methyl Acetate	ND	0.0027	0.0022	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0055	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Methylene Chloride	ND	0.027	0.0097	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	0.010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Styrene	ND	0.0027	0.00082	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Tetrachloroethylene	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Toluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2,3-Trichlorobenzene	ND	0.0027	0.00082	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,2,4-Trichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0027	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,1,2-Trichloroethane	ND	0.0027	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Trichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
Vinyl Chloride	ND	0.014	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
m+p Xylene	ND	0.0055	0.0023	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF
o-Xylene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 17:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/26/15 17:36
Toluene-d8	102	70-130		10/26/15 17:36
4-Bromofluorobenzene	98.3	70-130		10/26/15 17:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-3
Sampled: 10/21/2015 12:30

Sample ID: 15J1031-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	10/30/15	10/30/15 12:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	128	40-160		10/30/15 12:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.84	0.43	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzaldehyde	ND	0.43	0.40	mg/Kg dry	1	V-04	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Biphenyl	ND	0.84	0.53	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Caprolactam	ND	0.43	0.32	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Acetophenone	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzo(b)fluoranthene	0.091	0.21	0.060	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Bis(2-chloroethoxy)methane	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Bis(2-chloroethyl)ether	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Bis(2-Ethylhexyl)phthalate	0.19	0.43	0.17	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Bromophenylphenylether	ND	0.43	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Butylbenzylphthalate	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Carbazole	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Chloroaniline	ND	0.83	0.098	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Chloro-3-methylphenol	ND	0.83	0.091	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Chloronaphthalene	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Chlorophenol	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Chlorophenylphenylether	ND	0.43	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Chrysene	0.077	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Dibenzofuran	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Di-n-butylphthalate	ND	0.43	0.093	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
3,3-Dichlorobenzidine	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4-Dichlorophenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Diethylphthalate	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4-Dimethylphenol	ND	0.43	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Dimethylphthalate	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	0.40	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4-Dinitrophenol	ND	0.83	0.24	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4-Dinitrotoluene	ND	0.43	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,6-Dinitrotoluene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Di-n-octylphthalate	ND	0.43	0.22	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Fluoranthene	0.11	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Hexachlorobenzene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Hexachlorobutadiene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Hexachlorocyclopentadiene	ND	0.43	0.090	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Hexachloroethane	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-3
Sampled: 10/21/2015 12:30
Sample ID: 15J1031-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Isophorone	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Methylphenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
3/4-Methylphenol	ND	0.43	0.14	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Nitroaniline	ND	0.43	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
3-Nitroaniline	ND	0.43	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Nitroaniline	ND	0.43	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Nitrobenzene	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2-Nitrophenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
4-Nitrophenol	ND	0.83	0.093	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
N-Nitrosodiphenylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
N-Nitrosodi-n-propylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Pentachlorophenol	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Phenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Pyrene	0.11	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:07	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4,5-Trichlorophenol	ND	0.43	0.096	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
2,4,6-Trichlorophenol	ND	0.43	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:07	BGL
Atrazine	ND	0.84	0.71	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:07	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	85.5	30-130		10/27/15 20:07
Phenol-d6	86.4	30-130		10/27/15 20:07
Nitrobenzene-d5	83.8	30-130		10/27/15 20:07
2-Fluorobiphenyl	99.2	30-130		10/27/15 20:07
2,4,6-Tribromophenol	120	30-130		10/27/15 20:07
p-Terphenyl-d14	118	30-130		10/27/15 20:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-3
Sampled: 10/21/2015 12:30

Sample ID: 15J1031-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.075	3.1	0.030	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Arsenic	1.6	0.29	0.22	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Beryllium	0.18	0.39	0.033	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Chromium	10	7.2	0.46	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Copper	3.0	7.2	0.075	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Iron	13000	14	6.3	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Lead	6.0	2.9	0.060	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Manganese	86	7.5	0.098	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Mercury	0.0081	0.030	0.0050	mg/Kg dry	1	J	SW-846 7471B	10/24/15	10/27/15 14:22	SCB
Nickel	1.0	7.2	0.15	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Silver	ND	0.13	0.041	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Thallium	ND	0.093	0.026	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Zinc	22	14	0.23	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:44	WSD

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Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-3
Sampled: 10/21/2015 12:30

Sample ID: 15J1031-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	25	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	10/28/15	10/28/15 15:50	VAK
Nitrate as N	ND	2.8	2.8	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	10/27/15	10/27/15 13:50	AG
Sulfate	ND	190	38	mg/Kg dry	1		ASTM D516-90, 02 Modified	10/28/15	10/28/15 16:45	AG
% Solids	79.8			% Wt	1		SM 2540G	10/22/15	10/23/15 10:49	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 6:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.5	70-130		10/31/15 6:58
Toluene-d8	100	70-130		10/31/15 6:58
4-Bromofluorobenzene	95.1	70-130		10/31/15 6:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 16:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	52.6	40-160		10/30/15 16:07

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump | Sample Description: | Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-2 | Sampled: 10/21/2015 13:20

Sample ID: 15J1031-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Isophorone	3.8	10	1.8	µg/L	1	J, B	SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 15:58	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	38.1		15-110		10/28/15 15:58
Phenol-d6	25.5		15-110		10/28/15 15:58
Nitrobenzene-d5	83.8		30-130		10/28/15 15:58
2-Fluorobiphenyl	104		30-130		10/28/15 15:58
2,4,6-Tribromophenol	**126**	*	15-110	S-07	10/28/15 15:58
p-Terphenyl-d14	115		30-130		10/28/15 15:58

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Arsenic	0.90	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Copper	0.96	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Iron	1100	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Lead	0.19	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Manganese	130	2.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:11	SCB
Nickel	2.4	10	1.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:36	MJH
Zinc	7.5	20	6.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:36	MJH

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Sample Description:
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Field Sample #: SW-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-05
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	0.29	0.30	0.22	mg/L	1	J	SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK
Nitrate as N	0.23	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	9.7	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/28/15	10/28/15 16:45	AG

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Bromobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Carbon Disulfide	ND	0.0064	0.0035	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Chlorodibromomethane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Chloromethane	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Cyclohexane	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,4-Dioxane	ND	0.11	0.061	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Trichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF
o-Xylene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		10/26/15 18:08
Toluene-d8	102	70-130		10/26/15 18:08
4-Bromofluorobenzene	95.4	70-130		10/26/15 18:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	10/30/15	10/30/15 13:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	140	40-160		10/30/15 13:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump | Sample Description: | Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-2 | Sampled: 10/21/2015 13:20

Sample ID: 15J1031-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-04	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzo(a)anthracene	0.17	0.20	0.054	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzo(a)pyrene	0.19	0.20	0.064	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzo(b)fluoranthene	0.32	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzo(g,h,i)perylene	0.15	0.20	0.090	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Benzo(k)fluoranthene	0.13	0.20	0.064	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Bis(2-chloroethoxy)methane	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Bis(2-Ethylhexyl)phthalate	0.34	0.41	0.16	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Butylbenzylphthalate	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Carbazole	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Chloroaniline	ND	0.79	0.094	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Chloro-3-methylphenol	ND	0.79	0.088	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Chlorophenol	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Chrysene	0.24	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Dibenz(a,h)anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
3,3-Dichlorobenzidine	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Diethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4-Dinitrophenol	ND	0.79	0.23	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Fluoranthene	0.39	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-2
Sampled: 10/21/2015 13:20
Sample ID: 15J1031-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	0.16	0.20	0.15	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Isophorone	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
4-Nitrophenol	ND	0.79	0.089	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
N-Nitrosodiphenylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
N-Nitrosodi-n-propylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Phenanthrene	0.13	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Pyrene	0.40	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:31	BGL
Atrazine	ND	0.81	0.68	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:31	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	78.0		30-130		10/27/15 20:31
Phenol-d6	79.4		30-130		10/27/15 20:31
Nitrobenzene-d5	71.1		30-130		10/27/15 20:31
2-Fluorobiphenyl	91.8		30-130		10/27/15 20:31
2,4,6-Tribromophenol	**135**	*	30-130	S-07	10/27/15 20:31
p-Terphenyl-d14	113		30-130		10/27/15 20:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-2
Sampled: 10/21/2015 13:20

Sample ID: 15J1031-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.17	3.2	0.030	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Arsenic	3.3	0.30	0.23	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Beryllium	0.38	0.40	0.033	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Chromium	54	7.4	0.47	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Copper	6.8	7.4	0.077	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Iron	34000	300	130	mg/Kg dry	100		SW-846 6020A	10/22/15	10/28/15 11:04	WSD
Lead	8.9	3.0	0.062	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Manganese	100	7.7	0.10	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Mercury	0.024	0.030	0.0050	mg/Kg dry	1	J	SW-846 7471B	10/24/15	10/27/15 14:24	SCB
Nickel	2.6	7.4	0.15	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Thallium	ND	0.095	0.027	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Zinc	32	15	0.23	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD
Cadmium	ND	0.56	0.026	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:53	WSD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-2
Sampled: 10/21/2015 13:20

Sample ID: 15J1031-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	27	20	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	10/28/15	10/28/15 15:50	VAK
Nitrate as N	3.9	3.0	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	10/27/15	10/27/15 13:50	AG
Sulfate	ND	160	32	mg/Kg dry	1		ASTM D516-90, 02 Modified	10/28/15	10/28/15 16:45	AG
% Solids	83.1			% Wt	1		SM 2540G	10/22/15	10/23/15 10:49	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Bromodichloromethane	0.54	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Chlorodibromomethane	0.55	1.0	0.054	µg/L	1	J	SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Chloroform	0.28	2.0	0.14	µg/L	1	J	SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Styrene	0.18	1.0	0.12	µg/L	1	J	SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 7:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		10/31/15 7:30
Toluene-d8	99.8	70-130		10/31/15 7:30
4-Bromofluorobenzene	96.2	70-130		10/31/15 7:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 16:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	111	40-160		10/30/15 16:35

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	28.7	15-110		10/28/15 16:22
Phenol-d6	21.4	15-110		10/28/15 16:22
Nitrobenzene-d5	75.3	30-130		10/28/15 16:22
2-Fluorobiphenyl	102	30-130		10/28/15 16:22
2,4,6-Tribromophenol	109	15-110		10/28/15 16:22
p-Terphenyl-d14	113	30-130		10/28/15 16:22

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-07
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Arsenic	0.95	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Copper	1.9	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Iron	1400	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Lead	0.51	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Manganese	160	2.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:12	SCB
Nickel	1.7	10	1.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:40	MJH
Zinc	13	20	6.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:40	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-1
Sampled: 10/21/2015 14:30

Sample ID: 15J1031-07

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.22	mg/L	1		SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK
Nitrate as N	0.31	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	26	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/28/15	10/28/15 16:45	AG

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Carbon Disulfide	ND	0.0060	0.0033	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 18:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.4	70-130		10/26/15 18:40
Toluene-d8	101	70-130		10/26/15 18:40
4-Bromofluorobenzene	93.8	70-130		10/26/15 18:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	10/30/15	10/30/15 14:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	133	40-160		10/30/15 14:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-04	SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Acetophenone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Bis(2-chloroethoxy)methane	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Bis(2-chloroethyl)ether	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Bis(2-Ethylhexyl)phthalate	0.20	0.41	0.16	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Bromophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Butylbenzylphthalate	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Carbazole	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Chloroaniline	ND	0.79	0.093	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Chloro-3-methylphenol	ND	0.79	0.087	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Chlorophenol	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Chlorophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4-Dichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Diethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4-Dimethylphenol	ND	0.41	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4-Dinitrophenol	ND	0.79	0.23	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Hexachlorocyclopentadiene	ND	0.41	0.086	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Hexachloroethane	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-1
Sampled: 10/21/2015 14:30
Sample ID: 15J1031-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Isophorone	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
4-Nitrophenol	ND	0.79	0.089	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
N-Nitrosodiphenylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
N-Nitrosodi-n-propylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Pentachlorophenol	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Phenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4,5-Trichlorophenol	ND	0.41	0.092	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
2,4,6-Trichlorophenol	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 20:55	BGL
Atrazine	ND	0.80	0.68	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 20:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	81.5	30-130		10/27/15 20:55
Phenol-d6	84.7	30-130		10/27/15 20:55
Nitrobenzene-d5	78.7	30-130		10/27/15 20:55
2-Fluorobiphenyl	97.0	30-130		10/27/15 20:55
2,4,6-Tribromophenol	127	30-130		10/27/15 20:55
p-Terphenyl-d14	121	30-130		10/27/15 20:55

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-1
Sampled: 10/21/2015 14:30

Sample ID: 15J1031-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.083	3.3	0.031	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Arsenic	0.82	0.30	0.23	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Beryllium	0.19	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Chromium	6.8	7.6	0.48	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Copper	4.0	7.6	0.078	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Iron	8700	15	6.6	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Lead	9.5	3.0	0.063	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Manganese	61	7.9	0.10	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Mercury	0.0088	0.029	0.0050	mg/Kg dry	1	J	SW-846 7471B	10/24/15	10/27/15 14:25	SCB
Nickel	2.0	7.6	0.16	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Selenium	ND	1.3	0.22	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Silver	ND	0.13	0.043	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Thallium	ND	0.097	0.028	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Zinc	18	15	0.24	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:55	WSD
Cadmium	0.064	0.58	0.026	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:55	WSD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-1
Sampled: 10/21/2015 14:30

Sample ID: 15J1031-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	28	20	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	10/28/15	10/28/15 15:50	VAK
Nitrate as N	2.3	2.1	2.1	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	10/27/15	10/27/15 13:50	AG
Sulfate	ND	200	39	mg/Kg dry	1		ASTM D516-90, 02 Modified	10/28/15	10/28/15 16:45	AG
% Solids	83.5			% Wt	1		SM 2540G	10/22/15	10/23/15 10:49	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		10/31/15 8:01
Toluene-d8	99.8	70-130		10/31/15 8:01
4-Bromofluorobenzene	96.0	70-130		10/31/15 8:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 17:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	115	40-160		10/30/15 17:04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 16:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	28.9	15-110		10/28/15 16:45
Phenol-d6	19.9	15-110		10/28/15 16:45
Nitrobenzene-d5	71.7	30-130		10/28/15 16:45
2-Fluorobiphenyl	91.8	30-130		10/28/15 16:45
2,4,6-Tribromophenol	107	15-110		10/28/15 16:45
p-Terphenyl-d14	102	30-130		10/28/15 16:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-09
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Arsenic	0.83	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Copper	3.2	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Iron	1000	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Lead	0.42	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Manganese	190	2.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:14	SCB
Nickel	3.6	10	1.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:43	MJH
Zinc	14	20	6.6	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:43	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SW-DUP A
Sampled: 10/21/2015 00:00

Sample ID: 15J1031-09

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.0	0.30	0.22	mg/L	1		SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK
Nitrate as N	0.54	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	11	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/28/15	10/28/15 16:45	AG

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	0.034	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Benzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Bromobenzene	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Bromochloromethane	ND	0.0029	0.0020	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Bromodichloromethane	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Bromoform	ND	0.0029	0.0020	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Bromomethane	ND	0.014	0.0024	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
2-Butanone (MEK)	ND	0.057	0.025	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Carbon Disulfide	ND	0.0086	0.0047	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Carbon Tetrachloride	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Chlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Chlorodibromomethane	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Chloroethane	ND	0.029	0.0022	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Chloroform	ND	0.0057	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Chloromethane	ND	0.014	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Cyclohexane	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2-Dichlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,3-Dichlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,4-Dichlorobenzene	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.029	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,1-Dichloroethane	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2-Dichloroethane	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,1-Dichloroethylene	ND	0.0057	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
cis-1,2-Dichloroethylene	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
trans-1,2-Dichloroethylene	ND	0.0029	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2-Dichloropropane	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,4-Dioxane	ND	0.14	0.083	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Ethylbenzene	0.0021	0.0029	0.0011	mg/Kg dry	1	J	SW-846 8260B	10/26/15	10/26/15 19:13	MFF
2-Hexanone (MBK)	ND	0.029	0.016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Isopropylbenzene (Cumene)	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Methyl Acetate	ND	0.0029	0.0023	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0057	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Methylene Chloride	ND	0.029	0.010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.029	0.011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Styrene	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Tetrachloroethylene	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Toluene	0.0058	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2,3-Trichlorobenzene	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,2,4-Trichlorobenzene	ND	0.0029	0.0011	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00

Sample ID: 15J1031-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0029	0.0014	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,1,2-Trichloroethane	ND	0.0029	0.0017	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Trichloroethylene	ND	0.0029	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0013	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
Vinyl Chloride	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
m+p Xylene	ND	0.0057	0.0024	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF
o-Xylene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	10/26/15	10/26/15 19:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		10/26/15 19:13
Toluene-d8	101	70-130		10/26/15 19:13
4-Bromofluorobenzene	96.7	70-130		10/26/15 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	10/30/15	10/30/15 14:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	159	40-160		10/30/15 14:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump | Sample Description: | Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-DUP A | Sampled: 10/21/2015 00:00

Sample ID: 15J1031-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.84	0.43	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1	V-04	SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Biphenyl	ND	0.84	0.53	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Acetophenone	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzo(a)anthracene	0.31	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzo(a)pyrene	0.34	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzo(b)fluoranthene	0.52	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzo(g,h,i)perylene	0.24	0.21	0.094	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Benzo(k)fluoranthene	0.19	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Bis(2-chloroethoxy)methane	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Bis(2-chloroethyl)ether	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Bis(2-Ethylhexyl)phthalate	0.20	0.42	0.16	mg/Kg dry	1	J	SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Bromophenylphenylether	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Butylbenzylphthalate	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Carbazole	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Chloroaniline	ND	0.82	0.097	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Chloro-3-methylphenol	ND	0.82	0.091	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Chloronaphthalene	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Chlorophenol	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Chlorophenylphenylether	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Chrysene	0.44	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Dibenzofuran	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Di-n-butylphthalate	ND	0.42	0.092	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
3,3-Dichlorobenzidine	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4-Dichlorophenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Diethylphthalate	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4-Dimethylphenol	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Dimethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4-Dinitrophenol	ND	0.82	0.24	mg/Kg dry	1	V-19, V-20	SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4-Dinitrotoluene	ND	0.42	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,6-Dinitrotoluene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Fluoranthene	0.80	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Hexachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Hexachlorobutadiene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Hexachlorocyclopentadiene	ND	0.42	0.090	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Hexachloroethane	ND	0.42	0.085	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	0.26	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Isophorone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Methylphenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Nitroaniline	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
3-Nitroaniline	ND	0.42	0.061	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Nitroaniline	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Nitrobenzene	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
4-Nitrophenol	ND	0.82	0.092	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
N-Nitrosodiphenylamine	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
N-Nitrosodi-n-propylamine	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Phenanthrene	0.39	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Phenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Pyrene	0.83	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4,5-Trichlorophenol	ND	0.42	0.096	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
2,4,6-Trichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	10/23/15	10/27/15 21:19	BGL
Atrazine	ND	0.84	0.71	mg/Kg dry	1	V-20	SW-846 8270D	10/23/15	10/27/15 21:19	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.4	30-130		10/27/15 21:19
Phenol-d6	78.1	30-130		10/27/15 21:19
Nitrobenzene-d5	79.0	30-130		10/27/15 21:19
2-Fluorobiphenyl	95.2	30-130		10/27/15 21:19
2,4,6-Tribromophenol	112	30-130		10/27/15 21:19
p-Terphenyl-d14	119	30-130		10/27/15 21:19

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00

Sample ID: 15J1031-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.11	3.3	0.031	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Arsenic	1.8	0.30	0.23	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Beryllium	0.23	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Chromium	9.3	7.6	0.48	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Copper	6.5	7.6	0.078	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Iron	14000	15	6.6	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Lead	320	3.0	0.063	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Manganese	88	7.9	0.10	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Mercury	0.058	0.031	0.0052	mg/Kg dry	1		SW-846 7471B	10/24/15	10/27/15 14:26	SCB
Nickel	1.7	7.6	0.16	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Selenium	ND	1.3	0.22	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Silver	ND	0.13	0.043	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Thallium	ND	0.097	0.028	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Zinc	62	15	0.24	mg/Kg dry	5		SW-846 6020A	10/22/15	10/28/15 10:58	WSD
Cadmium	0.16	0.58	0.026	mg/Kg dry	5	J	SW-846 6020A	10/22/15	10/28/15 10:58	WSD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-DUP A
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-10
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	33	24	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	10/28/15	10/28/15 15:50	VAK
Nitrate as N	3.0	2.9	2.8	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	10/27/15	10/27/15 13:50	AG
Sulfate	ND	180	37	mg/Kg dry	1		ASTM D516-90, 02 Modified	10/28/15	10/28/15 16:45	AG
% Solids	80.1			% Wt	1		SM 2540G	10/22/15	10/23/15 10:49	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-2
Sampled: 10/21/2015 09:00
Sample ID: 15J1031-11
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	37	50	4.9	µg/L	1	J	SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-2
Sampled: 10/21/2015 09:00
Sample ID: 15J1031-11
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 8:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.8	70-130		10/31/15 8:32
Toluene-d8	101	70-130		10/31/15 8:32
4-Bromofluorobenzene	95.2	70-130		10/31/15 8:32

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-2
Sampled: 10/21/2015 09:00
Sample ID: 15J1031-11
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 17:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	135	40-160		10/30/15 17:32

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: TMW-2
Sampled: 10/21/2015 09:00

Sample ID: 15J1031-11

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	2.5	0.30	0.22	mg/L	1		SM19-22 4500 NH3 C	10/27/15	10/28/15 14:45	VAK

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30

Sample ID: 15J1031-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.8	70-130		10/31/15 9:03
Toluene-d8	99.6	70-130		10/31/15 9:03
4-Bromofluorobenzene	93.3	70-130		10/31/15 9:03

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 18:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	121	40-160		10/30/15 18:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:09	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	41.4		15-110		10/28/15 17:09
Phenol-d6	26.5		15-110		10/28/15 17:09
Nitrobenzene-d5	89.4		30-130		10/28/15 17:09
2-Fluorobiphenyl	114		30-130		10/28/15 17:09
2,4,6-Tribromophenol	**151**	*	15-110	S-07	10/28/15 17:09
p-Terphenyl-d14	**132**	*	30-130	S-07	10/28/15 17:09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Arsenic	ND	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Copper	2.1	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Iron	ND	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Lead	0.14	2.0	0.11	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Manganese	0.60	2.0	0.23	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:15	SCB
Nickel	ND	10	1.6	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH
Zinc	ND	20	6.6	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:47	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: TMW-RB
Sampled: 10/21/2015 15:30
Sample ID: 15J1031-12
Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	0.66	2.0	0.40	mg/L	1	J	ASTM D516-90, 02	10/28/15	10/28/15 16:45	AG

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 9:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.3	70-130		10/31/15 9:34
Toluene-d8	100	70-130		10/31/15 9:34
4-Bromofluorobenzene	95.3	70-130		10/31/15 9:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	10/30/15	10/30/15 18:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	124	40-160		10/30/15 18:29

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Atrazine	ND	20	16	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1	V-19, V-20	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Hexachlorobenzene	ND	10	4.6	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1	V-20	SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	10/27/15	10/28/15 17:32	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	32.7		15-110		10/28/15 17:32
Phenol-d6	20.7		15-110		10/28/15 17:32
Nitrobenzene-d5	69.8		30-130		10/28/15 17:32
2-Fluorobiphenyl	89.8		30-130		10/28/15 17:32
2,4,6-Tribromophenol	**123**	*	15-110	S-07	10/28/15 17:32
p-Terphenyl-d14	104		30-130		10/28/15 17:32

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: SED-RB
Sampled: 10/21/2015 15:35
Sample ID: 15J1031-13
Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Arsenic	ND	0.80	0.59	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Copper	0.80	10	0.37	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Iron	ND	100	21	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Lead	ND	2.0	0.11	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Manganese	0.90	2.0	0.23	µg/L	2	J	SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	10/29/15	10/29/15 11:16	SCB
Nickel	ND	10	1.6	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH
Zinc	ND	20	6.6	µg/L	2		SW-846 6020A	10/22/15	10/23/15 14:50	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031

Date Received: 10/21/2015

Field Sample #: SED-RB
Sampled: 10/21/2015 15:35

Sample ID: 15J1031-13

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.050	0.049	mg/L	1		SM 21-22 4500 NO3 F	10/28/15	10/28/15 18:40	AG
Sulfate	ND	2.0	0.40	mg/L	1		ASTM D516-90, 02	10/28/15	10/28/15 16:45	AG

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: Trip Blank-1
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-14
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Chlorodibromomethane	ND	1.0	0.054	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Tetrachloroethylene	ND	0.50	0.080	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: Trip Blank-1
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-14
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	10/30/15	10/31/15 4:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.3	70-130		10/31/15 4:54
Toluene-d8	100	70-130		10/31/15 4:54
4-Bromofluorobenzene	95.0	70-130		10/31/15 4:54

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: Trip Blank-Soil
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-15
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Carbon Disulfide	ND	0.0060	0.0033	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cary Dump
Sample Description:
Work Order: 15J1031
Date Received: 10/21/2015
Field Sample #: Trip Blank-Soil
Sampled: 10/21/2015 00:00
Sample ID: 15J1031-15
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	10/26/15	10/26/15 19:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/26/15 19:45
Toluene-d8	101	70-130		10/26/15 19:45
4-Bromofluorobenzene	98.8	70-130		10/26/15 19:45

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-90, 02

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B133832	100	100	10/26/15
15J1031-03 [SW-3]	B133832	100	100	10/26/15

ASTM D516-90, 02

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-05 [SW-2]	B134060	100	100	10/28/15
15J1031-07 [SW-1]	B134060	100	100	10/28/15
15J1031-09 [SW-DUP A]	B134060	100	100	10/28/15
15J1031-12 [TMW-RB]	B134060	100	100	10/28/15
15J1031-13 [SED-RB]	B134060	100	100	10/28/15

ASTM D516-90, 02 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B134059	1.26	100	10/28/15
15J1031-04 [SED-3]	B134059	1.31	100	10/28/15
15J1031-06 [SED-2]	B134059	1.51	100	10/28/15
15J1031-08 [SED-1]	B134059	1.22	100	10/28/15
15J1031-10 [SED-DUP A]	B134059	1.37	100	10/28/15

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B134065	25.0	25.0	10/28/15
15J1031-03 [SW-3]	B134065	25.0	25.0	10/28/15
15J1031-05 [SW-2]	B134065	25.0	25.0	10/28/15
15J1031-07 [SW-1]	B134065	25.0	25.0	10/28/15
15J1031-09 [SW-DUP A]	B134065	25.0	25.0	10/28/15
15J1031-12 [TMW-RB]	B134065	25.0	25.0	10/28/15
15J1031-13 [SED-RB]	B134065	25.0	25.0	10/28/15

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B133930	1.27	50.0	10/27/15
15J1031-04 [SED-3]	B133930	1.10	50.0	10/27/15
15J1031-06 [SED-2]	B133930	1.00	50.0	10/27/15
15J1031-08 [SED-1]	B133930	1.40	50.0	10/27/15
15J1031-10 [SED-DUP A]	B133930	1.09	50.0	10/27/15

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15J1031-02 [SED-4]	B133587	10/22/15
15J1031-04 [SED-3]	B133587	10/22/15
15J1031-06 [SED-2]	B133587	10/22/15
15J1031-08 [SED-1]	B133587	10/22/15
15J1031-10 [SED-DUP A]	B133587	10/22/15

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B133945	100	100	10/27/15
15J1031-03 [SW-3]	B133945	100	100	10/27/15
15J1031-05 [SW-2]	B133945	100	100	10/27/15
15J1031-07 [SW-1]	B133945	100	100	10/27/15
15J1031-09 [SW-DUP A]	B133945	100	100	10/27/15
15J1031-11 [TMW-2]	B133945	100	100	10/27/15

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B134029	1.28	100	10/28/15
15J1031-04 [SED-3]	B134029	1.52	100	10/28/15
15J1031-06 [SED-2]	B134029	1.32	100	10/28/15
15J1031-08 [SED-1]	B134029	1.29	100	10/28/15
15J1031-10 [SED-DUP A]	B134029	1.15	100	10/28/15

Prep Method: SW-846 3050B-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B133568	1.08	50.0	10/22/15
15J1031-04 [SED-3]	B133568	1.08	50.0	10/22/15
15J1031-06 [SED-2]	B133568	1.01	50.0	10/22/15
15J1031-08 [SED-1]	B133568	0.988	50.0	10/22/15
15J1031-10 [SED-DUP A]	B133568	1.03	50.0	10/22/15

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B133576	50.0	50.0	10/22/15
15J1031-03 [SW-3]	B133576	50.0	50.0	10/22/15
15J1031-05 [SW-2]	B133576	50.0	50.0	10/22/15
15J1031-07 [SW-1]	B133576	50.0	50.0	10/22/15
15J1031-09 [SW-DUP A]	B133576	50.0	50.0	10/22/15
15J1031-12 [TMW-RB]	B133576	50.0	50.0	10/22/15
15J1031-13 [SED-RB]	B133576	50.0	50.0	10/22/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B134095	6.00	6.00	10/29/15
15J1031-03 [SW-3]	B134095	6.00	6.00	10/29/15
15J1031-05 [SW-2]	B134095	6.00	6.00	10/29/15
15J1031-07 [SW-1]	B134095	6.00	6.00	10/29/15
15J1031-09 [SW-DUP A]	B134095	6.00	6.00	10/29/15
15J1031-12 [TMW-RB]	B134095	6.00	6.00	10/29/15
15J1031-13 [SED-RB]	B134095	6.00	6.00	10/29/15

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Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B133732	0.649	50.0	10/24/15
15J1031-04 [SED-3]	B133732	0.633	50.0	10/24/15
15J1031-06 [SED-2]	B133732	0.612	50.0	10/24/15
15J1031-08 [SED-1]	B133732	0.610	50.0	10/24/15
15J1031-10 [SED-DUP A]	B133732	0.605	50.0	10/24/15

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B133800	4.95	10.0	10/26/15
15J1031-04 [SED-3]	B133800	4.57	10.0	10/26/15
15J1031-06 [SED-2]	B133800	5.65	10.0	10/26/15
15J1031-08 [SED-1]	B133800	5.98	10.0	10/26/15
15J1031-10 [SED-DUP A]	B133800	4.35	10.0	10/26/15
15J1031-15 [Trip Blank-Soil]	B133800	5.00	10.0	10/26/15

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B134224	5	5.00	10/30/15
15J1031-03 [SW-3]	B134224	5	5.00	10/30/15
15J1031-05 [SW-2]	B134224	5	5.00	10/30/15
15J1031-07 [SW-1]	B134224	5	5.00	10/30/15
15J1031-09 [SW-DUP A]	B134224	5	5.00	10/30/15
15J1031-11 [TMW-2]	B134224	5	5.00	10/30/15
15J1031-12 [TMW-RB]	B134224	5	5.00	10/30/15
15J1031-13 [SED-RB]	B134224	5	5.00	10/30/15
15J1031-14 [Trip Blank-1]	B134224	5	5.00	10/30/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B134252	5.59	5.00	10/30/15
15J1031-04 [SED-3]	B134252	5.83	5.00	10/30/15
15J1031-06 [SED-2]	B134252	6.65	5.00	10/30/15
15J1031-08 [SED-1]	B134252	5.66	5.00	10/30/15
15J1031-10 [SED-DUP A]	B134252	6.08	5.00	10/30/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B134254	5	5.00	10/30/15
15J1031-03 [SW-3]	B134254	5	5.00	10/30/15
15J1031-05 [SW-2]	B134254	5	5.00	10/30/15
15J1031-07 [SW-1]	B134254	5	5.00	10/30/15
15J1031-09 [SW-DUP A]	B134254	5	5.00	10/30/15
15J1031-11 [TMW-2]	B134254	5	5.00	10/30/15
15J1031-12 [TMW-RB]	B134254	5	5.00	10/30/15
15J1031-13 [SED-RB]	B134254	5	5.00	10/30/15

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15J1031-02 [SED-4]	B133613	30.0	1.00	10/23/15
15J1031-04 [SED-3]	B133613	30.0	1.00	10/23/15
15J1031-06 [SED-2]	B133613	30.0	1.00	10/23/15
15J1031-08 [SED-1]	B133613	30.0	1.00	10/23/15
15J1031-10 [SED-DUP A]	B133613	30.0	1.00	10/23/15

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15J1031-01 [SW-4]	B133847	1000	1.00	10/27/15
15J1031-03 [SW-3]	B133847	1000	1.00	10/27/15
15J1031-05 [SW-2]	B133847	1000	1.00	10/27/15
15J1031-07 [SW-1]	B133847	1000	1.00	10/27/15
15J1031-09 [SW-DUP A]	B133847	1000	1.00	10/27/15
15J1031-12 [TMW-RB]	B133847	1000	1.00	10/27/15
15J1031-13 [SED-RB]	B133847	1000	1.00	10/27/15

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133800 - SW-846 5035										
Blank (B133800-BLK1)				Prepared & Analyzed: 10/26/15						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B133800 - SW-846 5035											
Blank (B133800-BLK1)				Prepared & Analyzed: 10/26/15							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0544*		mg/Kg wet	0.0500		109	70-130				
Surrogate: Toluene-d8	*0.0510*		mg/Kg wet	0.0500		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0487*		mg/Kg wet	0.0500		97.4	70-130				
LCS (B133800-BS1)				Prepared & Analyzed: 10/26/15							
Acetone	0.196	0.10	mg/Kg wet	0.200		97.8	70-160			V-20	†
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130				
Bromobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130				
Bromoform	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130				
Bromomethane	0.0141	0.010	mg/Kg wet	0.0200		70.5	40-130				†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.200		98.4	70-160				†
Carbon Disulfide	0.0239	0.0060	mg/Kg wet	0.0200		120	70-130			V-20	
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
Chlorodibromomethane	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130				
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.4	70-130			J	
Chloroform	0.0209	0.0040	mg/Kg wet	0.0200		104	70-130				
Chloromethane	0.0165	0.010	mg/Kg wet	0.0200		82.6	70-130				
Cyclohexane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		82.1	70-130				
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130				
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
1,3-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130				
Dichlorodifluoromethane (Freon 12)	0.0110	0.020	mg/Kg wet	0.0200		55.0	40-160			J, V-20	†
1,1-Dichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
1,2-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
1,1-Dichloroethylene	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130				
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				
trans-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				
cis-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130				
trans-1,3-Dichloropropene	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130				
1,4-Dioxane	0.174	0.10	mg/Kg wet	0.200		87.2	40-160				†
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130				
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.7	70-160				†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
Methyl Acetate	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.7	70-130				
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160				†
4-Methyl-2-pentanone (MIBK)	0.188	0.020	mg/Kg wet	0.200		94.1	70-160				†
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130				
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130				
Toluene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130				
1,2,3-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130				
1,2,4-Trichlorobenzene	0.0166	0.0020	mg/Kg wet	0.0200		82.9	70-130				
1,1,1-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130				
1,1,2-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B133800 - SW-846 5035											
LCS (B133800-BS1)				Prepared & Analyzed: 10/26/15							
Trichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130				
Trichlorofluoromethane (Freon 11)	0.0202	0.010	mg/Kg wet	0.0200		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0216	0.010	mg/Kg wet	0.0200		108	70-130				
Vinyl Chloride	0.0205	0.010	mg/Kg wet	0.0200		103	40-130				†
m+p Xylene	0.0412	0.0040	mg/Kg wet	0.0400		103	70-130				
o-Xylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0535*		mg/Kg wet	0.0500		107	70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0494*		mg/Kg wet	0.0500		98.9	70-130				
LCS Dup (B133800-BSD1)				Prepared & Analyzed: 10/26/15							
Acetone	0.209	0.10	mg/Kg wet	0.200		104	70-160	6.45	25	V-20	†
Benzene	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	7.70	25		
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	6.44	25		
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	6.36	25		
Bromodichloromethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	8.47	25		
Bromoform	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	8.96	25		
Bromomethane	0.0164	0.010	mg/Kg wet	0.0200		82.2	40-130	15.3	25		†
2-Butanone (MEK)	0.209	0.040	mg/Kg wet	0.200		104	70-160	5.90	25		†
Carbon Disulfide	0.0259	0.0060	mg/Kg wet	0.0200		129	70-130	7.79	25	V-20	
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.73	25		
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	8.18	25		
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	5.65	25		
Chloroethane	0.0207	0.020	mg/Kg wet	0.0200		104	70-130	12.4	25		
Chloroform	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	7.02	25		
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.5	70-130	8.02	25		
Cyclohexane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	7.49	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130	5.45	25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	6.37	25		
1,2-Dichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	5.84	25		
1,3-Dichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	8.48	25		
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	7.00	25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.7	40-160	4.79	25	J, V-20	†
1,1-Dichloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	7.03	25		
1,2-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	7.24	25		
1,1-Dichloroethylene	0.0243	0.0040	mg/Kg wet	0.0200		121	70-130	8.60	25		
cis-1,2-Dichloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	7.53	25		
trans-1,2-Dichloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	7.07	25		
1,2-Dichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	5.62	25		
cis-1,3-Dichloropropene	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	6.52	25		
trans-1,3-Dichloropropene	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130	6.02	25		
1,4-Dioxane	0.178	0.10	mg/Kg wet	0.200		89.2	40-160	2.31	50		† ‡
Ethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	7.46	25		
2-Hexanone (MBK)	0.193	0.020	mg/Kg wet	0.200		96.4	70-160	7.28	25		†
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	7.50	25		
Methyl Acetate	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	9.11	25		
Methyl tert-Butyl Ether (MTBE)	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130	5.33	25		
Methylene Chloride	0.0234	0.020	mg/Kg wet	0.0200		117	40-160	9.12	25		†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.200		101	70-160	6.84	25		†
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	7.10	25		
1,1,2,2-Tetrachloroethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	9.58	25		
Tetrachloroethylene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	6.93	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133800 - SW-846 5035										
LCS Dup (B133800-BSD1)				Prepared & Analyzed: 10/26/15						
Toluene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	6.29	25	
1,2,3-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	8.20	25	
1,2,4-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	6.98	25	
1,1,1-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	6.47	25	
1,1,2-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	7.19	25	
Trichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.85	25	
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	70-130	7.70	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0234	0.010	mg/Kg wet	0.0200		117	70-130	7.91	25	
Vinyl Chloride	0.0219	0.010	mg/Kg wet	0.0200		109	40-130	6.32	25	†
m+p Xylene	0.0443	0.0040	mg/Kg wet	0.0400		111	70-130	7.35	25	
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	7.22	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0539*		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	*0.0510*		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0499*		mg/Kg wet	0.0500		99.8	70-130			
Batch B134224 - SW-846 5030B										
Blank (B134224-BLK1)				Prepared: 10/30/15 Analyzed: 10/31/15						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134224 - SW-846 5030B										
Blank (B134224-BLK1)				Prepared: 10/30/15 Analyzed: 10/31/15						
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	*23.7*		µg/L	25.0		94.8	70-130			
LCS (B134224-BS1)				Prepared: 10/30/15 Analyzed: 10/31/15						
Acetone	76.8	50	µg/L	100		76.8	70-160			†
Benzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130			
Bromoform	9.18	1.0	µg/L	10.0		91.8	70-130			
Bromomethane	8.73	2.0	µg/L	10.0		87.3	40-160			†
2-Butanone (MEK)	97.6	20	µg/L	100		97.6	40-160			†
Carbon Disulfide	11.1	4.0	µg/L	10.0		111	70-130			
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130			
Chloroethane	9.89	2.0	µg/L	10.0		98.9	70-130			
Chloroform	11.1	2.0	µg/L	10.0		111	70-130			
Chloromethane	7.86	2.0	µg/L	10.0		78.6	40-160			†
Cyclohexane	10.0	5.0	µg/L	10.0		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.89	5.0	µg/L	10.0		98.9	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130			
1,2-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
1,3-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
Dichlorodifluoromethane (Freon 12)	6.37	2.0	µg/L	10.0		63.7	40-160			†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1-Dichloroethylene	9.32	1.0	µg/L	10.0		93.2	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B134224 - SW-846 5030B												
LCS (B134224-BS1)				Prepared: 10/30/15 Analyzed: 10/31/15								
1,4-Dioxane	133	50	µg/L	100		**133**	*	40-130			L-02, V-20	†
Ethylbenzene	11.8	1.0	µg/L	10.0		118		70-130				
2-Hexanone (MBK)	98.9	10	µg/L	100		98.9		70-160				†
Isopropylbenzene (Cumene)	12.1	1.0	µg/L	10.0		121		70-130				
Methyl Acetate	8.19	1.0	µg/L	10.0		81.9		70-130				
Methyl tert-Butyl Ether (MTBE)	8.59	1.0	µg/L	10.0		85.9		70-130				
Methyl Cyclohexane	11.1	1.0	µg/L	10.0		111		70-130				
Methylene Chloride	10.3	5.0	µg/L	10.0		103		70-130				
4-Methyl-2-pentanone (MIBK)	98.3	10	µg/L	100		98.3		70-160				†
Styrene	11.6	1.0	µg/L	10.0		116		70-130				
1,1,2,2-Tetrachloroethane	9.92	0.50	µg/L	10.0		99.2		70-130				
Tetrachloroethylene	11.9	0.50	µg/L	10.0		119		70-130				
Toluene	11.3	1.0	µg/L	10.0		113		70-130				
1,2,3-Trichlorobenzene	7.78	5.0	µg/L	10.0		77.8		70-130				
1,2,4-Trichlorobenzene	8.23	1.0	µg/L	10.0		82.3		70-130				
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130				
Trichloroethylene	11.1	1.0	µg/L	10.0		111		70-130				
Trichlorofluoromethane (Freon 11)	8.77	2.0	µg/L	10.0		87.7		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.13	1.0	µg/L	10.0		91.3		70-130				
Vinyl Chloride	9.38	2.0	µg/L	10.0		93.8		40-160				†
m+p Xylene	23.7	2.0	µg/L	20.0		118		70-130				
o-Xylene	11.6	1.0	µg/L	10.0		116		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.9		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4		70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.8		70-130				
LCS Dup (B134224-BSD1)				Prepared: 10/30/15 Analyzed: 10/31/15								
Acetone	84.7	50	µg/L	100		84.7		70-160	9.75	25		†
Benzene	10.5	1.0	µg/L	10.0		105		70-130	3.19	25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130	3.72	25		
Bromodichloromethane	10.5	0.50	µg/L	10.0		105		70-130	0.380	25		
Bromoform	9.64	1.0	µg/L	10.0		96.4		70-130	4.89	25		
Bromomethane	9.42	2.0	µg/L	10.0		94.2		40-160	7.60	25		†
2-Butanone (MEK)	108	20	µg/L	100		108		40-160	10.2	25		†
Carbon Disulfide	10.1	4.0	µg/L	10.0		101		70-130	9.16	25		
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103		70-130	1.44	25		
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	2.50	25		
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102		70-130	0.195	25		
Chloroethane	9.43	2.0	µg/L	10.0		94.3		70-130	4.76	25		
Chloroform	10.8	2.0	µg/L	10.0		108		70-130	2.93	25		
Chloromethane	7.65	2.0	µg/L	10.0		76.5		40-160	2.71	25		†
Cyclohexane	9.80	5.0	µg/L	10.0		98.0		70-130	2.42	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108		70-130	8.33	25		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111		70-130	4.24	25		
1,2-Dichlorobenzene	11.9	1.0	µg/L	10.0		119		70-130	1.78	25		
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	0.773	25		
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	0.0909	25		
Dichlorodifluoromethane (Freon 12)	5.47	2.0	µg/L	10.0		54.7		40-160	15.2	25		†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	2.96	25		
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111		70-130	0.718	25		
1,1-Dichloroethylene	9.06	1.0	µg/L	10.0		90.6		70-130	2.83	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B134224 - SW-846 5030B												
LCS Dup (B134224-BSD1)				Prepared: 10/30/15 Analyzed: 10/31/15								
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130	3.50	25		
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	2.81	25		
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106		70-130	3.08	25		
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	1.31	25		
trans-1,3-Dichloropropene	11.6	0.50	µg/L	10.0		116		70-130	2.27	25		
1,4-Dioxane	134	50	µg/L	100		**134**	*	40-130	0.555	50	L-02, V-20	† ‡
Ethylbenzene	11.5	1.0	µg/L	10.0		115		70-130	2.58	25		
2-Hexanone (MBK)	114	10	µg/L	100		114		70-160	14.1	25		†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118		70-130	2.43	25		
Methyl Acetate	9.00	1.0	µg/L	10.0		90.0		70-130	9.42	25		
Methyl tert-Butyl Ether (MTBE)	9.38	1.0	µg/L	10.0		93.8		70-130	8.79	25		
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106		70-130	4.51	25		
Methylene Chloride	10.3	5.0	µg/L	10.0		103		70-130	0.0972	25		
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100		109		70-160	10.7	25		†
Styrene	11.6	1.0	µg/L	10.0		116		70-130	0.0862	25		
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.0		110		70-130	10.7	25		
Tetrachloroethylene	11.5	0.50	µg/L	10.0		115		70-130	3.25	25		
Toluene	11.1	1.0	µg/L	10.0		111		70-130	1.70	25		
1,2,3-Trichlorobenzene	8.76	5.0	µg/L	10.0		87.6		70-130	11.9	25		
1,2,4-Trichlorobenzene	9.05	1.0	µg/L	10.0		90.5		70-130	9.49	25		
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107		70-130	4.49	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109		70-130	3.35	25		
Trichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	5.37	25		
Trichlorofluoromethane (Freon 11)	8.72	2.0	µg/L	10.0		87.2		70-130	0.572	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.71	1.0	µg/L	10.0		87.1		70-130	4.71	25		
Vinyl Chloride	8.74	2.0	µg/L	10.0		87.4		40-160	7.06	25		†
m+p Xylene	23.1	2.0	µg/L	20.0		115		70-130	2.52	25		
o-Xylene	11.4	1.0	µg/L	10.0		114		70-130	2.00	25		
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.9		70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.6		70-130				
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.7		70-130				
Batch B134360 - SW-846 5030B												
Blank (B134360-BLK1)				Prepared: 11/02/15 Analyzed: 11/03/15								
Acetone	ND	50	µg/L									
Benzene	ND	1.0	µg/L									
Bromochloromethane	ND	1.0	µg/L									
Bromodichloromethane	ND	0.50	µg/L									
Bromoform	ND	1.0	µg/L									
Bromomethane	ND	2.0	µg/L									
2-Butanone (MEK)	ND	20	µg/L									
Carbon Disulfide	ND	4.0	µg/L									
Carbon Tetrachloride	ND	5.0	µg/L									
Chlorobenzene	ND	1.0	µg/L									
Chlorodibromomethane	ND	0.50	µg/L									
Chloroethane	ND	2.0	µg/L									
Chloroform	ND	2.0	µg/L									
Chloromethane	ND	2.0	µg/L									
Cyclohexane	ND	5.0	µg/L									
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L									
1,2-Dibromoethane (EDB)	ND	0.50	µg/L									

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134360 - SW-846 5030B										
Blank (B134360-BLK1)				Prepared: 11/02/15 Analyzed: 11/03/15						
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.8	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.2	70-130			
LCS (B134360-BS1)				Prepared & Analyzed: 11/02/15						
Acetone	77.9	50	µg/L	100		77.9	70-160			†
Benzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	9.14	1.0	µg/L	10.0		91.4	70-130			
Bromomethane	7.67	2.0	µg/L	10.0		76.7	40-160			†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
Carbon Disulfide	10.6	4.0	µg/L	10.0		106	70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	9.83	0.50	µg/L	10.0		98.3	70-130			
Chloroethane	8.41	2.0	µg/L	10.0		84.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134360 - SW-846 5030B										
LCS (B134360-BS1)				Prepared & Analyzed: 11/02/15						
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	7.26	2.0	µg/L	10.0		72.6	40-160			†
Cyclohexane	9.20	5.0	µg/L	10.0		92.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.68	5.0	µg/L	10.0		96.8	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Dichlorodifluoromethane (Freon 12)	5.88	2.0	µg/L	10.0		58.8	40-160			†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	8.71	1.0	µg/L	10.0		87.1	70-130			
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130			
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
1,4-Dioxane	117	50	µg/L	100		117	40-130			†
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160			†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112	70-130			
Methyl Acetate	8.06	1.0	µg/L	10.0		80.6	70-130			
Methyl tert-Butyl Ether (MTBE)	8.87	1.0	µg/L	10.0		88.7	70-130			
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130			
Methylene Chloride	9.98	5.0	µg/L	10.0		99.8	70-130			
4-Methyl-2-pentanone (MIBK)	99.2	10	µg/L	100		99.2	70-160			†
Styrene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,2,2-Tetrachloroethane	9.05	0.50	µg/L	10.0		90.5	70-130			
Tetrachloroethylene	11.4	0.50	µg/L	10.0		114	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	7.38	5.0	µg/L	10.0		73.8	70-130			
1,2,4-Trichlorobenzene	7.81	1.0	µg/L	10.0		78.1	70-130			
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloroethane	9.57	1.0	µg/L	10.0		95.7	70-130			
Trichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
Trichlorofluoromethane (Freon 11)	8.35	2.0	µg/L	10.0		83.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.40	1.0	µg/L	10.0		84.0	70-130			
Vinyl Chloride	8.23	2.0	µg/L	10.0		82.3	40-160			†
m+p Xylene	22.1	2.0	µg/L	20.0		111	70-130			
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.4	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B134360 - SW-846 5030B											
LCS Dup (B134360-BSD1)				Prepared & Analyzed: 11/02/15							
Acetone	77.2	50	µg/L	100		77.2		70-160	0.877	25	†
Benzene	10.1	1.0	µg/L	10.0		101		70-130	2.05	25	
Bromochloromethane	10.4	1.0	µg/L	10.0		104		70-130	1.46	25	
Bromodichloromethane	9.95	0.50	µg/L	10.0		99.5		70-130	1.40	25	
Bromoform	8.99	1.0	µg/L	10.0		89.9		70-130	1.65	25	
Bromomethane	7.92	2.0	µg/L	10.0		79.2		40-160	3.21	25	†
2-Butanone (MEK)	101	20	µg/L	100		101		40-160	0.759	25	†
Carbon Disulfide	10.6	4.0	µg/L	10.0		106		70-130	0.473	25	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102		70-130	0.00	25	
Chlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	1.13	25	
Chlorodibromomethane	9.65	0.50	µg/L	10.0		96.5		70-130	1.85	25	
Chloroethane	7.92	2.0	µg/L	10.0		79.2		70-130	6.00	25	
Chloroform	10.5	2.0	µg/L	10.0		105		70-130	0.0954	25	
Chloromethane	7.47	2.0	µg/L	10.0		74.7		40-160	2.85	25	†
Cyclohexane	9.30	5.0	µg/L	10.0		93.0		70-130	1.08	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.0	5.0	µg/L	10.0		100		70-130	3.35	25	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	0.762	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	1.34	25	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	0.453	25	
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	0.671	25	
Dichlorodifluoromethane (Freon 12)	5.72	2.0	µg/L	10.0		57.2		40-160	2.76	25	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.188	25	
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	2.14	25	
1,1-Dichloroethylene	8.40	1.0	µg/L	10.0		84.0		70-130	3.62	25	
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6		70-130	1.51	25	
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	0.665	25	
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101		70-130	0.792	25	
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103		70-130	3.54	25	
trans-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113		70-130	2.15	25	
1,4-Dioxane	133	50	µg/L	100		**133**	*	40-130	12.5	50	† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130	1.65	25	
2-Hexanone (MBK)	101	10	µg/L	100		101		70-160	0.753	25	†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112		70-130	0.625	25	
Methyl Acetate	8.02	1.0	µg/L	10.0		80.2		70-130	0.498	25	
Methyl tert-Butyl Ether (MTBE)	9.14	1.0	µg/L	10.0		91.4		70-130	3.00	25	
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104		70-130	1.95	25	
Methylene Chloride	9.78	5.0	µg/L	10.0		97.8		70-130	2.02	25	
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100		70-160	1.08	25	†
Styrene	10.8	1.0	µg/L	10.0		108		70-130	1.28	25	
1,1,2,2-Tetrachloroethane	9.08	0.50	µg/L	10.0		90.8		70-130	0.331	25	
Tetrachloroethylene	11.0	0.50	µg/L	10.0		110		70-130	2.94	25	
Toluene	10.6	1.0	µg/L	10.0		106		70-130	0.378	25	
1,2,3-Trichlorobenzene	7.41	5.0	µg/L	10.0		74.1		70-130	0.406	25	
1,2,4-Trichlorobenzene	7.87	1.0	µg/L	10.0		78.7		70-130	0.765	25	
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130	0.0968	25	
1,1,2-Trichloroethane	9.78	1.0	µg/L	10.0		97.8		70-130	2.17	25	
Trichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	2.90	25	
Trichlorofluoromethane (Freon 11)	7.77	2.0	µg/L	10.0		77.7		70-130	7.20	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.94	1.0	µg/L	10.0		79.4		70-130	5.63	25	
Vinyl Chloride	8.22	2.0	µg/L	10.0		82.2		40-160	0.122	25	†
m+p Xylene	22.0	2.0	µg/L	20.0		110		70-130	0.680	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134360 - SW-846 5030B										
LCS Dup (B134360-BSD1)				Prepared & Analyzed: 11/02/15						
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130	0.0923	25	
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS (SIM) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134252 - SW-846 5035										
Blank (B134252-BLK1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.0101*		mg/Kg wet	0.0100		101	40-160			
LCS (B134252-BS1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	0.00620	0.0020	mg/Kg wet	0.00500		124	60-140			
Surrogate: 1,4-Dioxane-d8	*0.0117*		mg/Kg wet	0.0100		117	40-160			
LCS Dup (B134252-BSD1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	0.00599	0.0020	mg/Kg wet	0.00500		120	60-140	3.45	20	
Surrogate: 1,4-Dioxane-d8	*0.0115*		mg/Kg wet	0.0100		115	40-160			
Batch B134254 - SW-846 5035										
Blank (B134254-BLK1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	ND	2.0	µg/L							
Surrogate: 1,4-Dioxane-d8	*10.1*		µg/L	10.0		101	40-160			
LCS (B134254-BS1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	6.20	2.0	µg/L	5.00		124	60-140			
Surrogate: 1,4-Dioxane-d8	*11.7*		µg/L	10.0		117	40-160			
LCS Dup (B134254-BSD1)				Prepared & Analyzed: 10/30/15						
1,4-Dioxane	5.99	2.0	µg/L	5.00		120	60-140	3.45	20	
Surrogate: 1,4-Dioxane-d8	*11.5*		µg/L	10.0		115	40-160			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133613 - SW-846 3546										
Blank (B133613-BLK1)				Prepared: 10/23/15 Analyzed: 10/27/15						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							V-20
Benzaldehyde	ND	0.34	mg/Kg wet							V-04
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20, V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							V-20
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133613 - SW-846 3546										
Blank (B133613-BLK1)				Prepared: 10/23/15 Analyzed: 10/24/15						
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							V-20
Surrogate: 2-Fluorophenol	*5.82*		mg/Kg wet	6.67		87.3	30-130			
Surrogate: Phenol-d6	*5.68*		mg/Kg wet	6.67		85.2	30-130			
Surrogate: Nitrobenzene-d5	*2.75*		mg/Kg wet	3.33		82.6	30-130			
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg wet	3.33		105	30-130			
Surrogate: 2,4,6-Tribromophenol	*8.55*		mg/Kg wet	6.67		128	30-130			
Surrogate: p-Terphenyl-d14	*4.08*		mg/Kg wet	3.33		122	30-130			
LCS (B133613-BS1)				Prepared: 10/23/15 Analyzed: 10/27/15						
2,3,4,6-Tetrachlorophenol	1.72	0.67	mg/Kg wet	1.67		103	40-140			V-06
Benzaldehyde	1.00	0.34	mg/Kg wet	1.67		60.2	40-140			V-04
Biphenyl	1.60	0.67	mg/Kg wet	1.67		96.2	40-140			
Caprolactam	1.27	0.34	mg/Kg wet	1.67		76.1	40-140			
Acenaphthene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Acenaphthylene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140			
Acetophenone	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Benzo(a)anthracene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140			
Benzo(a)pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140			
Benzo(b)fluoranthene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140			
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.4	40-140			
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140			
Bis(2-chloroethoxy)methane	1.24	0.34	mg/Kg wet	1.67		74.7	40-140			
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.51	0.34	mg/Kg wet	1.67		90.6	40-140			
4-Bromophenylphenylether	1.64	0.34	mg/Kg wet	1.67		98.1	40-140			
Butylbenzylphthalate	1.45	0.34	mg/Kg wet	1.67		87.0	40-140			
Carbazole	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
4-Chloroaniline	0.760	0.66	mg/Kg wet	1.67		45.6	10-140			†
4-Chloro-3-methylphenol	1.36	0.66	mg/Kg wet	1.67		81.6	30-130			
2-Chloronaphthalene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.5	30-130			
4-Chlorophenylphenylether	1.63	0.34	mg/Kg wet	1.67		97.8	40-140			
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.5	40-140			
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.1	40-140			
Dibenzofuran	1.50	0.34	mg/Kg wet	1.67		90.0	40-140			
Di-n-butylphthalate	1.42	0.34	mg/Kg wet	1.67		85.3	40-140			
3,3-Dichlorobenzidine	1.06	0.17	mg/Kg wet	1.67		63.6	20-140			†
2,4-Dichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133613 - SW-846 3546												
LCS (B133613-BS1)				Prepared: 10/23/15 Analyzed: 10/24/15								
Diethylphthalate	1.51	0.34	mg/Kg wet	1.67		90.3		40-140				
2,4-Dimethylphenol	1.24	0.34	mg/Kg wet	1.67		74.4		30-130				
Dimethylphthalate	1.55	0.34	mg/Kg wet	1.67		93.2		40-140				
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130				
2,4-Dinitrophenol	0.790	0.66	mg/Kg wet	1.67		47.4		30-130			V-06, V-19	
2,4-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		93.0		40-140				
2,6-Dinitrotoluene	1.63	0.34	mg/Kg wet	1.67		97.9		40-140				
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		87.1		40-140				
Fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.4		40-140				
Fluorene	1.51	0.17	mg/Kg wet	1.67		90.4		40-140				
Hexachlorobenzene	1.77	0.34	mg/Kg wet	1.67		106		40-140			V-06	
Hexachlorobutadiene	1.57	0.34	mg/Kg wet	1.67		94.4		40-140				
Hexachlorocyclopentadiene	1.01	0.34	mg/Kg wet	1.67		60.6		40-140				
Hexachloroethane	1.17	0.34	mg/Kg wet	1.67		70.0		40-140				
Indeno(1,2,3-cd)pyrene	1.50	0.17	mg/Kg wet	1.67		90.3		40-140				
Isophorone	1.27	0.34	mg/Kg wet	1.67		76.5		40-140				
2-Methylnaphthalene	1.39	0.17	mg/Kg wet	1.67		83.3		40-140				
2-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.3		30-130				
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.3		30-130				
Naphthalene	1.36	0.17	mg/Kg wet	1.67		81.4		40-140				
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.6		40-140				
3-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.2		30-140				†
4-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		72.2		40-140				
Nitrobenzene	1.19	0.34	mg/Kg wet	1.67		71.2		40-140				
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.0		30-130				
4-Nitrophenol	1.65	0.66	mg/Kg wet	1.67		98.9		30-130				
N-Nitrosodiphenylamine	1.82	0.34	mg/Kg wet	1.67		109		40-140				
N-Nitrosodi-n-propylamine	1.16	0.34	mg/Kg wet	1.67		69.8		40-140				
Pentachlorophenol	1.23	0.34	mg/Kg wet	1.67		74.0		30-130				
Phenanthrene	1.46	0.17	mg/Kg wet	1.67		87.6		40-140				
Phenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130				
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.9		40-140				
1,2,4,5-Tetrachlorobenzene	1.52	0.34	mg/Kg wet	1.67		91.4		40-140				
2,4,5-Trichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.7		30-130				
2,4,6-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.8		30-130				
Atrazine	1.90	0.67	mg/Kg wet	1.67		114		40-140			V-06	
Surrogate: 2-Fluorophenol	*5.40*		mg/Kg wet	6.67		81.0		30-130				
Surrogate: Phenol-d6	*5.27*		mg/Kg wet	6.67		79.1		30-130				
Surrogate: Nitrobenzene-d5	*2.58*		mg/Kg wet	3.33		77.3		30-130				
Surrogate: 2-Fluorobiphenyl	*3.27*		mg/Kg wet	3.33		98.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*9.11*		mg/Kg wet	6.67		**137**	*	30-130			S-07	
Surrogate: p-Terphenyl-d14	*3.82*		mg/Kg wet	3.33		114		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B133613 - SW-846 3546											
LCS Dup (B133613-BSD1)				Prepared: 10/23/15 Analyzed: 10/27/15							
2,3,4,6-Tetrachlorophenol	2.07	0.67	mg/Kg wet	1.67		124	40-140	18.5	20	V-06	
Benzaldehyde	1.07	0.34	mg/Kg wet	1.67		64.5	40-140	6.87	20	V-04	
Biphenyl	1.78	0.67	mg/Kg wet	1.67		107	40-140	10.6	20		
Caprolactam	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	11.3	20		
Acenaphthene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	9.46	30		
Acenaphthylene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	9.33	30		
Acetophenone	1.37	0.34	mg/Kg wet	1.67		82.3	40-140	9.41	30		
Anthracene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140	12.3	30		
Benzo(a)anthracene	1.61	0.17	mg/Kg wet	1.67		96.9	40-140	8.91	30		
Benzo(a)pyrene	1.69	0.17	mg/Kg wet	1.67		101	40-140	10.9	30		
Benzo(b)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.4	40-140	12.0	30		
Benzo(g,h,i)perylene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	12.7	30		
Benzo(k)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140	11.3	30		
Bis(2-chloroethoxy)methane	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	7.95	30		
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.5	40-140	10.6	30		
Bis(2-Ethylhexyl)phthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140	10.3	30		
4-Bromophenylphenylether	1.81	0.34	mg/Kg wet	1.67		108	40-140	9.92	30		
Butylbenzylphthalate	1.59	0.34	mg/Kg wet	1.67		95.6	40-140	9.40	30		
Carbazole	1.59	0.17	mg/Kg wet	1.67		95.4	40-140	12.9	30		
4-Chloroaniline	0.756	0.66	mg/Kg wet	1.67		45.4	10-140	0.528	30		†
4-Chloro-3-methylphenol	1.48	0.66	mg/Kg wet	1.67		88.5	30-130	8.09	30		
2-Chloronaphthalene	1.41	0.34	mg/Kg wet	1.67		84.6	40-140	8.71	30		
2-Chlorophenol	1.43	0.34	mg/Kg wet	1.67		86.0	30-130	9.10	30		
4-Chlorophenylphenylether	1.77	0.34	mg/Kg wet	1.67		106	40-140	8.24	30		
Chrysene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140	9.89	30		
Dibenz(a,h)anthracene	1.58	0.17	mg/Kg wet	1.67		95.0	40-140	9.74	30		
Dibenzofuran	1.64	0.34	mg/Kg wet	1.67		98.5	40-140	9.02	30		
Di-n-butylphthalate	1.57	0.34	mg/Kg wet	1.67		94.2	40-140	9.90	30		
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		71.8	20-140	12.0	50		† ‡
2,4-Dichlorophenol	1.61	0.34	mg/Kg wet	1.67		96.6	30-130	6.63	30		
Diethylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140	12.8	30		
2,4-Dimethylphenol	1.34	0.34	mg/Kg wet	1.67		80.6	30-130	8.00	30		
Dimethylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140	9.68	30		
4,6-Dinitro-2-methylphenol	1.15	0.34	mg/Kg wet	1.67		68.7	30-130	3.22	30		
2,4-Dinitrophenol	0.755	0.66	mg/Kg wet	1.67		45.3	30-130	4.62	30	V-06, V-19	
2,4-Dinitrotoluene	1.79	0.34	mg/Kg wet	1.67		107	40-140	14.3	30		
2,6-Dinitrotoluene	1.81	0.34	mg/Kg wet	1.67		109	40-140	10.6	30		
Di-n-octylphthalate	1.61	0.34	mg/Kg wet	1.67		96.8	40-140	10.6	30		
Fluoranthene	1.71	0.17	mg/Kg wet	1.67		102	40-140	13.6	30		
Fluorene	1.66	0.17	mg/Kg wet	1.67		99.7	40-140	9.78	30		
Hexachlorobenzene	1.95	0.34	mg/Kg wet	1.67		117	40-140	9.85	30	V-06	
Hexachlorobutadiene	1.67	0.34	mg/Kg wet	1.67		100	40-140	6.18	30		
Hexachlorocyclopentadiene	1.16	0.34	mg/Kg wet	1.67		69.3	40-140	13.4	30		
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	8.93	30		
Indeno(1,2,3-cd)pyrene	1.69	0.17	mg/Kg wet	1.67		101	40-140	11.5	30		
Isophorone	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	7.14	30		
2-Methylnaphthalene	1.50	0.17	mg/Kg wet	1.67		90.3	40-140	8.04	30		
2-Methylphenol	1.28	0.34	mg/Kg wet	1.67		76.6	30-130	7.16	30		
3/4-Methylphenol	1.42	0.34	mg/Kg wet	1.67		85.1	30-130	10.9	30		
Naphthalene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	6.40	30		
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	12.8	30		
3-Nitroaniline	1.24	0.34	mg/Kg wet	1.67		74.4	30-140	8.70	30		†

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133613 - SW-846 3546												
LCS Dup (B133613-BSD1)				Prepared: 10/23/15 Analyzed: 10/24/15								
4-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		83.0		40-140	14.0	30		
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.4		40-140	7.07	30		
2-Nitrophenol	1.54	0.34	mg/Kg wet	1.67		92.5		30-130	8.43	30		
4-Nitrophenol	1.91	0.66	mg/Kg wet	1.67		115		30-130	14.7	50		‡
N-Nitrosodiphenylamine	1.97	0.34	mg/Kg wet	1.67		118		40-140	7.90	30		
N-Nitrosodi-n-propylamine	1.27	0.34	mg/Kg wet	1.67		75.9		40-140	8.43	30		
Pentachlorophenol	1.34	0.34	mg/Kg wet	1.67		80.3		30-130	8.19	30		
Phenanthrene	1.61	0.17	mg/Kg wet	1.67		96.4		40-140	9.61	30		
Phenol	1.37	0.34	mg/Kg wet	1.67		82.0		30-130	11.3	30		
Pyrene	1.72	0.17	mg/Kg wet	1.67		103		40-140	9.44	30		
1,2,4,5-Tetrachlorobenzene	1.67	0.34	mg/Kg wet	1.67		100		40-140	9.26	30		
2,4,5-Trichlorophenol	1.66	0.34	mg/Kg wet	1.67		99.3		30-130	10.2	30		
2,4,6-Trichlorophenol	1.69	0.34	mg/Kg wet	1.67		101		30-130	9.86	30		
Atrazine	2.07	0.67	mg/Kg wet	1.67		124		40-140	8.55	30	V-06	
Surrogate: 2-Fluorophenol	*5.85*		mg/Kg wet	6.67		87.7		30-130				
Surrogate: Phenol-d6	*5.84*		mg/Kg wet	6.67		87.6		30-130				
Surrogate: Nitrobenzene-d5	*2.80*		mg/Kg wet	3.33		83.9		30-130				
Surrogate: 2-Fluorobiphenyl	*3.51*		mg/Kg wet	3.33		105		30-130				
Surrogate: 2,4,6-Tribromophenol	*10.2*		mg/Kg wet	6.67		**153**	*	30-130			S-07	
Surrogate: p-Terphenyl-d14	*4.11*		mg/Kg wet	3.33		123		30-130				
Batch B133847 - SW-846 3510C												
Blank (B133847-BLK1)				Prepared: 10/27/15 Analyzed: 10/28/15								
2,3,4,6-Tetrachlorophenol	ND	20	µg/L								V-20	
Atrazine	ND	20	µg/L								V-20	
Benzaldehyde	ND	10	µg/L									
Biphenyl	ND	20	µg/L									
Caprolactam	ND	10	µg/L								L-04	
Acenaphthene	ND	5.0	µg/L									
Acenaphthylene	ND	5.0	µg/L									
Acetophenone	ND	10	µg/L									
Anthracene	ND	5.0	µg/L									
Benzo(a)anthracene	ND	5.0	µg/L									
Benzo(a)pyrene	ND	5.0	µg/L									
Benzo(b)fluoranthene	ND	5.0	µg/L									
Benzo(g,h,i)perylene	ND	5.0	µg/L									
Benzo(k)fluoranthene	ND	5.0	µg/L									
Bis(2-chloroethoxy)methane	ND	10	µg/L									
Bis(2-chloroethyl)ether	ND	10	µg/L									
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L									
4-Bromophenylphenylether	ND	10	µg/L									
Butylbenzylphthalate	ND	10	µg/L									
Carbazole	ND	10	µg/L									
4-Chloroaniline	ND	10	µg/L									
4-Chloro-3-methylphenol	ND	10	µg/L									
2-Chloronaphthalene	ND	10	µg/L									
2-Chlorophenol	ND	10	µg/L									
4-Chlorophenylphenylether	ND	10	µg/L									
Chrysene	ND	5.0	µg/L									
Dibenz(a,h)anthracene	ND	5.0	µg/L									
Dibenzofuran	ND	5.0	µg/L									
Di-n-butylphthalate	ND	10	µg/L									

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B133847 - SW-846 3510C											
Blank (B133847-BLK1)				Prepared: 10/27/15 Analyzed: 10/28/15							
3,3-Dichlorobenzidine	ND	10	µg/L								
2,4-Dichlorophenol	ND	10	µg/L								
Diethylphthalate	ND	10	µg/L								
2,4-Dimethylphenol	ND	10	µg/L								
Dimethylphthalate	ND	10	µg/L								
4,6-Dinitro-2-methylphenol	ND	10	µg/L								
2,4-Dinitrophenol	ND	10	µg/L								V-19, V-20
2,4-Dinitrotoluene	ND	10	µg/L								
2,6-Dinitrotoluene	ND	10	µg/L								
Di-n-octylphthalate	ND	10	µg/L								
Fluoranthene	ND	5.0	µg/L								
Fluorene	ND	5.0	µg/L								
Hexachlorobenzene	ND	10	µg/L								V-20
Hexachlorobutadiene	ND	10	µg/L								V-20
Hexachlorocyclopentadiene	ND	10	µg/L								
Hexachloroethane	ND	10	µg/L								
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L								
Isophorone	3.6	10	µg/L								J, B
2-Methylnaphthalene	ND	5.0	µg/L								
2-Methylphenol	ND	10	µg/L								
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*77.0*		µg/L	200		38.5		15-110			
Surrogate: Phenol-d6	*46.7*		µg/L	200		23.4		15-110			
Surrogate: Nitrobenzene-d5	*81.0*		µg/L	100		81.0		30-130			
Surrogate: 2-Fluorobiphenyl	*99.5*		µg/L	100		99.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*268*		µg/L	200		**134**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*113*		µg/L	100		113		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B133847 - SW-846 3510C											
LCS (B133847-BS1)				Prepared: 10/27/15 Analyzed: 10/28/15							
2,3,4,6-Tetrachlorophenol	140	20	µg/L	100		140		40-140			V-06
Atrazine	140	20	µg/L	100		140		40-140			V-06
Benzaldehyde	64.4	10	µg/L	100		64.4		40-140			L-07
Biphenyl	117	20	µg/L	100		117		40-140			
Caprolactam	19.0	10	µg/L	100		**19.0**	*	40-140			L-04
Acenaphthene	99.8	5.0	µg/L	100		99.8		40-140			
Acenaphthylene	99.9	5.0	µg/L	100		99.9		40-140			
Acetophenone	89.2	10	µg/L	100		89.2		40-140			
Anthracene	99.4	5.0	µg/L	100		99.4		40-140			
Benzo(a)anthracene	100	5.0	µg/L	100		100		40-140			
Benzo(a)pyrene	108	5.0	µg/L	100		108		40-140			
Benzo(b)fluoranthene	105	5.0	µg/L	100		105		40-140			
Benzo(g,h,i)perylene	92.2	5.0	µg/L	100		92.2		40-140			
Benzo(k)fluoranthene	106	5.0	µg/L	100		106		40-140			
Bis(2-chloroethoxy)methane	86.2	10	µg/L	100		86.2		40-140			
Bis(2-chloroethyl)ether	85.0	10	µg/L	100		85.0		40-140			
Bis(2-Ethylhexyl)phthalate	110	10	µg/L	100		110		40-140			
4-Bromophenylphenylether	120	10	µg/L	100		120		40-140			
Butylbenzylphthalate	102	10	µg/L	100		102		40-140			
Carbazole	95.8	10	µg/L	100		95.8		40-140			
4-Chloroaniline	68.0	10	µg/L	100		68.0		40-140			
4-Chloro-3-methylphenol	90.5	10	µg/L	100		90.5		30-130			
2-Chloronaphthalene	91.0	10	µg/L	100		91.0		40-140			
2-Chlorophenol	82.2	10	µg/L	100		82.2		30-130			
4-Chlorophenylphenylether	118	10	µg/L	100		118		40-140			
Chrysene	103	5.0	µg/L	100		103		40-140			
Dibenz(a,h)anthracene	105	5.0	µg/L	100		105		40-140			
Dibenzofuran	108	5.0	µg/L	100		108		40-140			
Di-n-butylphthalate	101	10	µg/L	100		101		40-140			
3,3-Dichlorobenzidine	99.8	10	µg/L	100		99.8		40-140			
2,4-Dichlorophenol	103	10	µg/L	100		103		30-130			
Diethylphthalate	110	10	µg/L	100		110		40-140			
2,4-Dimethylphenol	83.3	10	µg/L	100		83.3		30-130			
Dimethylphthalate	108	10	µg/L	100		108		40-140			
4,6-Dinitro-2-methylphenol	108	10	µg/L	100		108		30-130			
2,4-Dinitrophenol	134	10	µg/L	100		**134**	*	30-130			L-07, V-06, V-19
2,4-Dinitrotoluene	117	10	µg/L	100		117		40-140			
2,6-Dinitrotoluene	112	10	µg/L	100		112		40-140			
Di-n-octylphthalate	108	10	µg/L	100		108		40-140			
Fluoranthene	104	5.0	µg/L	100		104		40-140			
Fluorene	109	5.0	µg/L	100		109		40-140			
Hexachlorobenzene	129	10	µg/L	100		129		40-140			V-06
Hexachlorobutadiene	118	10	µg/L	100		118		40-140			V-06
Hexachlorocyclopentadiene	77.9	10	µg/L	100		77.9		30-140			†
Hexachloroethane	89.6	10	µg/L	100		89.6		40-140			
Indeno(1,2,3-cd)pyrene	103	5.0	µg/L	100		103		40-140			
Isophorone	91.7	10	µg/L	100		91.7		40-140			
2-Methylnaphthalene	99.8	5.0	µg/L	100		99.8		40-140			
2-Methylphenol	62.6	10	µg/L	100		62.6		30-130			
3/4-Methylphenol	62.5	10	µg/L	100		62.5		30-130			
Naphthalene	95.1	5.0	µg/L	100		95.1		40-140			
2-Nitroaniline	79.8	10	µg/L	100		79.8		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133847 - SW-846 3510C												
LCS (B133847-BS1)				Prepared: 10/27/15 Analyzed: 10/28/15								
3-Nitroaniline	74.3	10	µg/L	100		74.3		40-140				
4-Nitroaniline	86.2	10	µg/L	100		86.2		40-140				
Nitrobenzene	80.5	10	µg/L	100		80.5		40-140				
2-Nitrophenol	98.1	10	µg/L	100		98.1		30-130				
4-Nitrophenol	50.0	10	µg/L	100		50.0		10-130				†
N-Nitrosodiphenylamine	125	10	µg/L	100		125		40-140				
N-Nitrosodi-n-propylamine	81.2	10	µg/L	100		81.2		40-140				
Pentachlorophenol	96.7	10	µg/L	100		96.7		30-130				
Phenanthrene	101	5.0	µg/L	100		101		40-140				
Phenol	32.5	10	µg/L	100		32.5		20-130				†
Pyrene	107	5.0	µg/L	100		107		40-140				
1,2,4,5-Tetrachlorobenzene	111	10	µg/L	100		111		40-140				
2,4,5-Trichlorophenol	112	10	µg/L	100		112		30-130				
2,4,6-Trichlorophenol	114	10	µg/L	100		114		30-130				
Surrogate: 2-Fluorophenol	*92.8*		µg/L	200		46.4		15-110				
Surrogate: Phenol-d6	*58.9*		µg/L	200		29.4		15-110				
Surrogate: Nitrobenzene-d5	*88.5*		µg/L	100		88.5		30-130				
Surrogate: 2-Fluorobiphenyl	*115*		µg/L	100		115		30-130				
Surrogate: 2,4,6-Tribromophenol	*345*		µg/L	200		**172**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*125*		µg/L	100		125		30-130				
LCS Dup (B133847-BSD1)				Prepared: 10/27/15 Analyzed: 10/28/15								
2,3,4,6-Tetrachlorophenol	134	20	µg/L	100		134		40-140	4.63	20	V-06	
Atrazine	124	20	µg/L	100		124		40-140	11.6	20	V-06	
Benzaldehyde	59.0	10	µg/L	100		59.0		40-140	8.75	20		
Biphenyl	114	20	µg/L	100		114		40-140	2.55	20		
Caprolactam	18.0	10	µg/L	100		**18.0**	*	40-140	4.98	20	L-04	
Acenaphthene	96.4	5.0	µg/L	100		96.4		40-140	3.54	20		
Acenaphthylene	96.7	5.0	µg/L	100		96.7		40-140	3.25	20		
Acetophenone	86.1	10	µg/L	100		86.1		40-140	3.60	20		
Anthracene	98.6	5.0	µg/L	100		98.6		40-140	0.717	20		
Benzo(a)anthracene	99.4	5.0	µg/L	100		99.4		40-140	1.05	20		
Benzo(a)pyrene	104	5.0	µg/L	100		104		40-140	4.12	20		
Benzo(b)fluoranthene	101	5.0	µg/L	100		101		40-140	4.66	20		
Benzo(g,h,i)perylene	90.1	5.0	µg/L	100		90.1		40-140	2.30	20		
Benzo(k)fluoranthene	101	5.0	µg/L	100		101		40-140	4.73	20		
Bis(2-chloroethoxy)methane	83.7	10	µg/L	100		83.7		40-140	2.99	20		
Bis(2-chloroethyl)ether	82.6	10	µg/L	100		82.6		40-140	2.84	20		
Bis(2-Ethylhexyl)phthalate	98.0	10	µg/L	100		98.0		40-140	11.2	20		
4-Bromophenylphenylether	117	10	µg/L	100		117		40-140	2.31	20		
Butylbenzylphthalate	94.3	10	µg/L	100		94.3		40-140	7.57	20		
Carbazole	94.3	10	µg/L	100		94.3		40-140	1.56	20		
4-Chloroaniline	68.2	10	µg/L	100		68.2		40-140	0.250	20		
4-Chloro-3-methylphenol	87.2	10	µg/L	100		87.2		30-130	3.73	20		
2-Chloronaphthalene	90.8	10	µg/L	100		90.8		40-140	0.209	20		
2-Chlorophenol	81.9	10	µg/L	100		81.9		30-130	0.329	20		
4-Chlorophenylphenylether	113	10	µg/L	100		113		40-140	4.75	20		
Chrysene	99.3	5.0	µg/L	100		99.3		40-140	3.91	20		
Dibenz(a,h)anthracene	95.8	5.0	µg/L	100		95.8		40-140	9.06	20		
Dibenzofuran	104	5.0	µg/L	100		104		40-140	3.91	20		
Di-n-butylphthalate	92.4	10	µg/L	100		92.4		40-140	8.99	20		
3,3-Dichlorobenzidine	96.2	10	µg/L	100		96.2		40-140	3.65	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B133847 - SW-846 3510C												
LCS Dup (B133847-BSD1)				Prepared: 10/27/15 Analyzed: 10/28/15								
2,4-Dichlorophenol	100	10	µg/L	100		100		30-130	3.04	20		
Diethylphthalate	100	10	µg/L	100		100		40-140	8.90	20		
2,4-Dimethylphenol	76.3	10	µg/L	100		76.3		30-130	8.74	20		
Dimethylphthalate	103	10	µg/L	100		103		40-140	4.87	50		‡
4,6-Dinitro-2-methylphenol	107	10	µg/L	100		107		30-130	1.08	50		‡
2,4-Dinitrophenol	104	10	µg/L	100		104		30-130	25.7	50	V-06, V-19	‡
2,4-Dinitrotoluene	109	10	µg/L	100		109		40-140	6.69	20		
2,6-Dinitrotoluene	107	10	µg/L	100		107		40-140	4.70	20		
Di-n-octylphthalate	98.0	10	µg/L	100		98.0		40-140	10.1	20		
Fluoranthene	101	5.0	µg/L	100		101		40-140	3.32	20		
Fluorene	103	5.0	µg/L	100		103		40-140	5.55	20		
Hexachlorobenzene	127	10	µg/L	100		127		40-140	1.62	20	V-06	
Hexachlorobutadiene	110	10	µg/L	100		110		40-140	6.52	20	V-06	
Hexachlorocyclopentadiene	77.8	10	µg/L	100		77.8		30-140	0.0771	50		† ‡
Hexachloroethane	84.0	10	µg/L	100		84.0		40-140	6.49	50		‡
Indeno(1,2,3-cd)pyrene	102	5.0	µg/L	100		102		40-140	1.50	50		‡
Isophorone	88.6	10	µg/L	100		88.6		40-140	3.41	20		
2-Methylnaphthalene	96.0	5.0	µg/L	100		96.0		40-140	3.94	20		
2-Methylphenol	62.3	10	µg/L	100		62.3		30-130	0.608	20		
3/4-Methylphenol	62.4	10	µg/L	100		62.4		30-130	0.176	20		
Naphthalene	91.1	5.0	µg/L	100		91.1		40-140	4.29	20		
2-Nitroaniline	77.8	10	µg/L	100		77.8		40-140	2.52	20		
3-Nitroaniline	73.5	10	µg/L	100		73.5		40-140	1.10	20		
4-Nitroaniline	80.8	10	µg/L	100		80.8		40-140	6.45	20		
Nitrobenzene	79.4	10	µg/L	100		79.4		40-140	1.46	20		
2-Nitrophenol	95.4	10	µg/L	100		95.4		30-130	2.82	20		
4-Nitrophenol	47.1	10	µg/L	100		47.1		10-130	5.96	50		† ‡
N-Nitrosodiphenylamine	126	10	µg/L	100		126		40-140	0.144	20		
N-Nitrosodi-n-propylamine	79.2	10	µg/L	100		79.2		40-140	2.54	20		
Pentachlorophenol	88.3	10	µg/L	100		88.3		30-130	9.12	50		‡
Phenanthrene	99.7	5.0	µg/L	100		99.7		40-140	1.62	20		
Phenol	32.9	10	µg/L	100		32.9		20-130	1.22	20		†
Pyrene	102	5.0	µg/L	100		102		40-140	4.71	20		
1,2,4,5-Tetrachlorobenzene	108	10	µg/L	100		108		40-140	2.44	20		
2,4,5-Trichlorophenol	110	10	µg/L	100		110		30-130	1.32	20		
2,4,6-Trichlorophenol	109	10	µg/L	100		109		30-130	4.23	50		‡
Surrogate: 2-Fluorophenol	*90.7*		µg/L	200		45.3		15-110				
Surrogate: Phenol-d6	*60.2*		µg/L	200		30.1		15-110				
Surrogate: Nitrobenzene-d5	*85.7*		µg/L	100		85.7		30-130				
Surrogate: 2-Fluorobiphenyl	*111*		µg/L	100		111		30-130				
Surrogate: 2,4,6-Tribromophenol	*315*		µg/L	200		**158**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*114*		µg/L	100		114		30-130				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133568 - SW-846 3050B										
Blank (B133568-BLK1)				Prepared: 10/22/15 Analyzed: 10/28/15						
Antimony	ND	2.7	mg/Kg wet							
Arsenic	ND	0.25	mg/Kg wet							
Beryllium	ND	0.34	mg/Kg wet							
Chromium	ND	6.2	mg/Kg wet							
Copper	ND	6.2	mg/Kg wet							
Iron	ND	12	mg/Kg wet							
Lead	ND	2.5	mg/Kg wet							
Manganese	ND	6.4	mg/Kg wet							
Nickel	ND	6.2	mg/Kg wet							
Selenium	ND	1.0	mg/Kg wet							
Silver	ND	0.11	mg/Kg wet							
Thallium	ND	0.079	mg/Kg wet							
Zinc	0.43	12	mg/Kg wet							J
Cadmium	ND	0.47	mg/Kg wet							
LCS (B133568-BS1)				Prepared: 10/22/15 Analyzed: 10/28/15						
Antimony	98.3	5.3	mg/Kg wet	105		93.7	0-210.3			
Arsenic	96.7	0.49	mg/Kg wet	98.5		98.1	77.8-122.1			
Beryllium	56.7	0.67	mg/Kg wet	66.0		86.0	82.3-117.7			
Chromium	198	12	mg/Kg wet	182		109	78.7-120.6			
Copper	105	12	mg/Kg wet	106		99.0	80.4-119.6			
Iron	15300	25	mg/Kg wet	14400		106	46.8-153			
Lead	129	4.9	mg/Kg wet	130		99.4	82.4-117.8			
Manganese	447	13	mg/Kg wet	410		109	80.8-119.2			
Nickel	143	12	mg/Kg wet	149		96.3	82.2-117.8			
Selenium	150	2.1	mg/Kg wet	154		97.5	77.1-122.3			
Silver	39.3	0.22	mg/Kg wet	40.9		96.0	74.3-125.4			
Thallium	172	0.16	mg/Kg wet	175		98.2	78.2-121.6			
Zinc	182	25	mg/Kg wet	191		95.0	79.7-120.8			
Cadmium	139	0.94	mg/Kg wet	146		95.2	81.9-118.2			
LCS Dup (B133568-BSD1)				Prepared: 10/22/15 Analyzed: 10/28/15						
Antimony	93.0	5.5	mg/Kg wet	105		88.5	0-210.3	5.63	30	
Arsenic	98.1	0.51	mg/Kg wet	98.5		99.6	77.8-122.1	1.49	30	
Beryllium	55.1	0.69	mg/Kg wet	66.0		83.5	82.3-117.7	2.91	30	
Chromium	198	13	mg/Kg wet	182		109	78.7-120.6	0.201	30	
Copper	106	13	mg/Kg wet	106		100	80.4-119.6	1.00	30	
Iron	15700	25	mg/Kg wet	14400		109	46.8-153	2.68	30	
Lead	131	5.1	mg/Kg wet	130		101	82.4-117.8	1.16	30	
Manganese	450	13	mg/Kg wet	410		110	80.8-119.2	0.729	30	
Nickel	140	13	mg/Kg wet	149		93.7	82.2-117.8	2.75	30	
Selenium	150	2.1	mg/Kg wet	154		97.6	77.1-122.3	0.103	30	
Silver	38.8	0.22	mg/Kg wet	40.9		94.8	74.3-125.4	1.26	30	
Thallium	169	0.16	mg/Kg wet	175		96.5	78.2-121.6	1.78	30	
Zinc	178	25	mg/Kg wet	191		93.0	79.7-120.8	2.20	30	
Cadmium	134	0.96	mg/Kg wet	146		91.6	81.9-118.2	3.81	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B133568 - SW-846 3050B												
Duplicate (B133568-DUP1)		**Source: 15J1031-02**		Prepared: 10/22/15 Analyzed: 10/28/15								
Antimony	0.135	3.2	mg/Kg dry		0.786				**141**	*	35	J, R-04
Arsenic	1.50	0.30	mg/Kg dry		1.69				11.6		35	
Beryllium	0.142	0.41	mg/Kg dry		0.156				9.16		35	J
Chromium	11.2	7.5	mg/Kg dry		15.3				31.0		35	
Copper	5.98	7.5	mg/Kg dry		9.10				**41.4**	*	35	J, R-04
Iron	14100	15	mg/Kg dry		16700				16.6		35	
Lead	13.7	3.0	mg/Kg dry		12.6				8.40		35	
Manganese	95.1	7.7	mg/Kg dry		110				14.7		35	
Nickel	1.89	7.5	mg/Kg dry		3.92				**69.7**	*	35	J, R-04
Selenium	ND	1.3	mg/Kg dry		ND				NC		35	
Silver	0.0503	0.13	mg/Kg dry		0.0569				12.4		35	J
Thallium	0.0308	0.095	mg/Kg dry		ND				NC		35	J
Zinc	37.5	15	mg/Kg dry		50.8				30.1		35	
Cadmium	0.0864	0.57	mg/Kg dry		0.100				14.9		35	J
Matrix Spike (B133568-MS1)		**Source: 15J1031-02**		Prepared: 10/22/15 Analyzed: 10/28/15								
Antimony	11.7	3.4	mg/Kg dry	15.6	0.786	**69.9**	*	75-125				MS-07
Arsenic	16.1	0.31	mg/Kg dry	15.6	1.69	92.6		75-125				
Beryllium	14.0	0.42	mg/Kg dry	15.6	0.156	88.7		75-125				
Chromium	35.9	7.8	mg/Kg dry	15.6	15.3	**132**	*	75-125				MS-11
Copper	21.3	7.8	mg/Kg dry	15.6	9.10	78.1		75-125				
Iron	12000	16	mg/Kg dry	15.6	16700	**-30200**	*	75-125				MS-19
Lead	25.9	3.1	mg/Kg dry	15.6	12.6	85.7		75-125				
Manganese	94.2	8.1	mg/Kg dry	15.6	110	**-103**	*	75-125				MS-19
Nickel	19.6	7.8	mg/Kg dry	15.6	3.92	101		75-125				
Selenium	14.0	1.3	mg/Kg dry	15.6	ND	90.1		75-125				
Silver	15.6	0.14	mg/Kg dry	15.6	0.0569	100		75-125				
Thallium	15.4	0.10	mg/Kg dry	15.6	ND	99.3		75-125				
Zinc	49.1	16	mg/Kg dry	15.6	50.8	**-11.1**	*	75-125				MS-07
Cadmium	15.5	0.59	mg/Kg dry	15.6	0.100	99.2		75-125				
Batch B133576 - SW-846 3005A												
Blank (B133576-BLK1)				Prepared: 10/22/15 Analyzed: 10/23/15								
Antimony	ND	2.0	µg/L									
Arsenic	ND	0.80	µg/L									
Beryllium	ND	0.80	µg/L									
Cadmium	ND	1.0	µg/L									
Chromium	ND	2.0	µg/L									
Copper	ND	10	µg/L									
Iron	ND	100	µg/L									
Lead	ND	2.0	µg/L									
Manganese	ND	2.0	µg/L									
Nickel	ND	10	µg/L									
Selenium	ND	10	µg/L									
Silver	ND	1.0	µg/L									
Thallium	ND	0.40	µg/L									
Zinc	ND	20	µg/L									

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133576 - SW-846 3005A										
LCS (B133576-BS1)				Prepared: 10/22/15 Analyzed: 10/23/15						
Antimony	257	5.0	µg/L	250		103	80-120			
Arsenic	252	2.0	µg/L	250		101	80-120			
Beryllium	279	2.0	µg/L	250		112	80-120			
Cadmium	256	2.5	µg/L	250		102	80-120			
Chromium	246	5.0	µg/L	250		98.3	80-120			
Copper	252	25	µg/L	250		101	80-120			
Iron	254	250	µg/L	250		102	80-120			
Lead	259	5.0	µg/L	250		104	80-120			
Manganese	244	5.0	µg/L	250		97.4	80-120			
Nickel	244	25	µg/L	250		97.5	80-120			
Selenium	253	25	µg/L	250		101	80-120			
Silver	258	2.5	µg/L	250		103	80-120			
Thallium	244	1.0	µg/L	250		97.6	80-120			
Zinc	260	50	µg/L	250		104	80-120			
LCS Dup (B133576-BSD1)				Prepared: 10/22/15 Analyzed: 10/23/15						
Antimony	251	5.0	µg/L	250		101	80-120	2.20	20	
Arsenic	249	2.0	µg/L	250		99.7	80-120	1.23	20	
Beryllium	272	2.0	µg/L	250		109	80-120	2.48	20	
Cadmium	250	2.5	µg/L	250		100	80-120	2.25	20	
Chromium	240	5.0	µg/L	250		96.1	80-120	2.21	20	
Copper	247	25	µg/L	250		98.9	80-120	2.10	20	
Iron	253	250	µg/L	250		101	80-120	0.341	20	
Lead	254	5.0	µg/L	250		101	80-120	2.09	20	
Manganese	241	5.0	µg/L	250		96.6	80-120	0.897	20	
Nickel	238	25	µg/L	250		95.2	80-120	2.35	20	
Selenium	252	25	µg/L	250		101	80-120	0.449	20	
Silver	250	2.5	µg/L	250		100	80-120	3.00	20	
Thallium	241	1.0	µg/L	250		96.4	80-120	1.26	20	
Zinc	256	50	µg/L	250		102	80-120	1.56	20	
Batch B133732 - SW-846 7471										
Blank (B133732-BLK1)				Prepared: 10/24/15 Analyzed: 10/27/15						
Mercury	ND	0.025	mg/Kg wet							
LCS (B133732-BS1)				Prepared: 10/24/15 Analyzed: 10/27/15						
Mercury	6.19	0.80	mg/Kg wet	7.10		87.2	73.7-126.3			
LCS Dup (B133732-BSD1)				Prepared: 10/24/15 Analyzed: 10/27/15						
Mercury	7.14	0.79	mg/Kg wet	7.10		101	73.7-126.3	14.2	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B133732 - SW-846 7471												
Duplicate (B133732-DUP1)		**Source: 15J1031-02**		Prepared: 10/24/15 Analyzed: 10/27/15								
Mercury	0.0349	0.029	mg/Kg dry		0.0736				**71.3**	*	35	R-02
Matrix Spike (B133732-MS1)		**Source: 15J1031-02**		Prepared: 10/24/15 Analyzed: 10/27/15								
Mercury	0.210	0.030	mg/Kg dry	0.198	0.0736	**68.7**	*	75-125				MS-07
Batch B134095 - SW-846 7470A Prep												
Blank (B134095-BLK1)				Prepared & Analyzed: 10/29/15								
Mercury	ND	0.00010	mg/L									
LCS (B134095-BS1)				Prepared & Analyzed: 10/29/15								
Mercury	0.00181	0.00010	mg/L	0.00200		90.5		80-120				
LCS Dup (B134095-BSD1)				Prepared & Analyzed: 10/29/15								
Mercury	0.00292	0.00010	mg/L	0.00200		**146**	*	80-120	**47.0**	*	20	L-07A

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B133832 - ASTM D516-90, 02										
Blank (B133832-BLK1)				Prepared & Analyzed: 10/26/15						
Sulfate	ND	2.0	mg/L							
LCS (B133832-BS1)				Prepared & Analyzed: 10/26/15						
Sulfate	21	2.0	mg/L	20.0		107	83.8-123			
LCS Dup (B133832-BSD1)				Prepared & Analyzed: 10/26/15						
Sulfate	21	2.0	mg/L	20.0		105	83.8-123	1.98	8.27	
Batch B133930 - SM 21-22 4500 NO3 F Modified										
Blank (B133930-BLK1)				Prepared & Analyzed: 10/27/15						
Nitrate as N	ND	0.25	mg/Kg wet							
LCS (B133930-BS1)				Prepared & Analyzed: 10/27/15						
Nitrate as N	4.9		mg/Kg	4.97		98.6	88.9-111			
LCS Dup (B133930-BSD1)				Prepared & Analyzed: 10/27/15						
Nitrate as N	4.9		mg/Kg	4.97		98.8	88.9-111	0.204	5.66	
Duplicate (B133930-DUP1)	**Source: 15J1031-02**			Prepared & Analyzed: 10/27/15						
Nitrate as N	ND	2.5	mg/Kg dry		2.5			NC	26.4	
Matrix Spike (B133930-MS1)	**Source: 15J1031-02**			Prepared & Analyzed: 10/27/15						
Nitrate as N	220	2.7	mg/Kg dry	212	2.5	102	55.9-136			
Batch B133945 - SM19-22 4500 NH3 C										
Blank (B133945-BLK1)				Prepared: 10/27/15 Analyzed: 10/28/15						
Ammonia as N	ND	0.30	mg/L							
LCS (B133945-BS1)				Prepared: 10/27/15 Analyzed: 10/28/15						
Ammonia as N	5.2	0.30	mg/L	5.00		103	82-106			
LCS Dup (B133945-BSD1)				Prepared: 10/27/15 Analyzed: 10/28/15						
Ammonia as N	5.0	0.30	mg/L	5.00		100	82-106	2.96	8.24	
Duplicate (B133945-DUP2)	**Source: 15J1031-07**			Prepared: 10/27/15 Analyzed: 10/28/15						
Ammonia as N	ND	0.30	mg/L		ND			NC	34.8	
Matrix Spike (B133945-MS2)	**Source: 15J1031-07**			Prepared: 10/27/15 Analyzed: 10/28/15						
Ammonia as N	2.2	0.30	mg/L	2.00	ND	110	71.6-116			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134029 - SM21-22 4500 NH3 C Modified										
Blank (B134029-BLK1)				Prepared & Analyzed: 10/28/15						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B134029-BS1)				Prepared & Analyzed: 10/28/15						
Ammonia as N	520	30	mg/Kg wet	500		103	82-106			
LCS Dup (B134029-BSD1)				Prepared & Analyzed: 10/28/15						
Ammonia as N	520	30	mg/Kg wet	500		103	82-106	0.00	8.24	
Duplicate (B134029-DUP1)		**Source: 15J1031-02**		Prepared & Analyzed: 10/28/15						
Ammonia as N	27	28	mg/Kg dry		28			5.27	34.8	J
Matrix Spike (B134029-MS1)		**Source: 15J1031-02**		Prepared & Analyzed: 10/28/15						
Ammonia as N	230	32	mg/Kg dry	210	28	97.1	71.6-116			
Batch B134059 - ASTM D516-90, 02 Modified										
Blank (B134059-BLK1)				Prepared & Analyzed: 10/28/15						
Sulfate	ND	200	mg/Kg wet							
LCS (B134059-BS1)				Prepared & Analyzed: 10/28/15						
Sulfate	2200	200	mg/Kg wet	2000		108	83.8-123			
LCS Dup (B134059-BSD1)				Prepared & Analyzed: 10/28/15						
Sulfate	2100	200	mg/Kg wet	2000		107	83.8-123	0.934	8.27	
Batch B134060 - ASTM D516-90, 02										
Blank (B134060-BLK1)				Prepared & Analyzed: 10/28/15						
Sulfate	ND	2.0	mg/L							
LCS (B134060-BS1)				Prepared & Analyzed: 10/28/15						
Sulfate	22	2.0	mg/L	20.0		108	83.8-123			
LCS Dup (B134060-BSD1)				Prepared & Analyzed: 10/28/15						
Sulfate	21	2.0	mg/L	20.0		107	83.8-123	0.934	8.27	
Batch B134065 - SM 21-22 4500 NO3 F										
Blank (B134065-BLK1)				Prepared & Analyzed: 10/28/15						
Nitrate as N	ND	0.050	mg/L							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B134065 - SM 21-22 4500 NO3 F										
LCS (B134065-BS1)				Prepared & Analyzed: 10/28/15						
Nitrate as N	4.9		mg/L	4.97		99.2	88.9-111			
LCS Dup (B134065-BSD1)				Prepared & Analyzed: 10/28/15						
Nitrate as N	4.9		mg/L	4.97		99.4	88.9-111	0.203	5.66	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
ASTM D516-90, 02 in Water	
Sulfate	NY,NH,MA,CT,RI,VA,NC
SM 21-22 4500 NO3 F in Water	
Nitrate as N	CT,MA,NH,NY,RI,ME,NC,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW-846 6020A in Soil	
Antimony	NC,NY
Arsenic	NC,NY,VA,NH
Beryllium	VA,NY,NC,NH
Chromium	NY,NC
Copper	NY,NC
Iron	NC,NY
Lead	NY,NC
Manganese	NY,NC
Nickel	NY,NC
Selenium	NY,VA,NC,NH
Silver	NY,NC
Thallium	NC,VA,NY,NH
Zinc	NC,NY
Cadmium	NC,NY
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Copper	CT,NH,NY,NC,ME,VA
Iron	NC
Lead	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,NC,ME,VA
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Benzene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methyl Cyclohexane	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Water	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methyl Cyclohexane	NC
Methylene Chloride	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

15J1031

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

Company Name: Cardno
Address: 2725 E. Millbrook Rd. Raleigh N.C.
Attention: J-Ballard
Project Location: Cary Dump
Sampled By: C. Nobles / R. Broda

Telephone: (919)-571-0999
Project #
Client PO#
DATA DELIVERY (check all that apply) ○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: Justin.Ballard@cardno.com
Format: ☒ PDF ☒ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ○ yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8260	8260 SIM 1,4 Dioxane	SVOC's / 8270	6020*	7470/7471 (Hg)	Ammonia/ 4500 Nitrate	SO4 ASTM D516	# of Containers	** Preservation	***Container Code
01	SW-4	10:45				GW		X	X	X	X	X	X	X			
02	SED-4	10:45				S											
03	SW-3	12:30				GW											
04	SED-3	12:30				S											
05	SW-2	13:20				GW											
06	SED-2	13:20				S											
07	SW-1	14:30				GW											
08	SED-1	14:30				S											
09	SW-Dup A	—	—			GW											
10	SED-Dup A	—	—			S											

Comments: • Date of all samples taken is 10-21-2015
* Antimony, Arsenic, beryllium, Cadmium, chromium, copper, iron, lead, manganese, nickle, selenium, silver, thallium, zinc

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	10/21/15 1700
Received by: (signature) [signature]	Date/Time: 10/21/15 1700
Relinquished by: (signature) [signature]	Date/Time: 10/21/15 1730
Received by: (signature) [signature] 3.0°C	Date/Time: 10/22/15 9:39

Turnaround ††
○ 5-Day
○ 5-7-Day
○ 10-Day
RUSH †
○ †24-Hr †48-Hr
○ †72-Hr †4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
☒ 2L
○ GWPC
☒ SWSL
○ OTHER

Program Information
○ DSCA ○ IHSB Orphaned Landfill
○ SWS Landfill ○ UST ○ REC
☒ Other: Landfill

NELAC & AIHA Certified
WBE/DBE Certified

*** Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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CHAIN OF CUSTODY RECORD

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Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

15J1031

Company Name: Cardno
Address: 2725 E. Millbrook Rd. Raleigh NC
Attention: J-Ballard
Project Location: Cary Dump
Sampled By: C. Nobles / R. Broda

Telephone: (919)-871-0999
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email:
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8260	8260/SIM 1,4 Dioxane	SVOC's/8270	6020	7470/7471 (HG)	Ammonia 4500	Nitrate 4500	SO_4 ASTM D516	Ammonia 4500			
11	TMW-2	9:00 10-21	—	—	G	GW		X	X							X			
12	TMW-RB	10-21-15 1530	—	—	—	DI		X	X	X	X	X	X	X	~~X~~				
13	Sed-RB	10-21-15 1535	—	—	—	DI		X	X	X	X	X	X	X					
14	Trip Blank-1	—	—	—	—	DI		X	X										

# of Containers																			
** Preservation																			
***Container Code																			

Dissolved Metals
O Field Filtered
O Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: *See Page 1

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
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Turnaround ††
O 5-Day
O 5-7-Day
O 10-Day
RUSH †
O †24-Hr †48-Hr
O †72-Hr †4-Day
Requires Lab Approval

Detection Limit Requirements
North Carolina
☒ 2L
O GWPC
☒ SWSL
☒ OTHER landfill

Program Information
O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other: _____

NELAC & AIHA Certified
WBE/DBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
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Table of Contents

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FedEx Ship Track Manage Learn FedEx Office ® Login

FedEx ® Tracking

774795341384

Ship date:
Wed 10/21/2015
Raleigh, NC US

Delivered
Signed for by: P.BLAKE

Actual delivery:
Thu 10/22/2015 9:39 am
EAST LONGMEADOW, MA US

5 Piece shipment

Travel History

Date/Time	Activity	Location
10/22/2015 - Thursday		
9:39 am	Delivered	EAST LONGMEADOW, MA
8:18 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:12 am	At local FedEx facility	WINDSOR LOCKS, CT
6:23 am	At destination sort facility	EAST GRANBY, CT
4:49 am	Departed FedEx location	INDIANAPOLIS, IN
10/21/2015 - Wednesday		
11:56 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:55 pm	Left FedEx origin facility	DURHAM, NC
5:46 pm	Picked up	RALEIGH, NC
4:10 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	774795341384	**Service**	FedEx Priority Overnight
Master tracking number	774795341384	**Weight**	15 lbs / 6.8 kgs
Dimensions	24x14x14 in.	**Delivered To**	Shipping/Receiving
Total pieces	5	**Total shipment weight**	51 lbs / 23.13 kgs
Shipper reference	80	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge		

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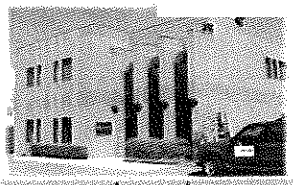
con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Cardno **RECEIVED BY:** KKM **DATE:** 10/22/15

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
   Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A
   Temperature °C by Temp blank 3.0 Temperature °C by Temp gun _____
5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** (Yes) No
   Who was notified Lucy Date _____ Time _____
7) **Location where samples are stored:** —

   Permission to subcontract samples? Yes No
   (Walk-in clients only) if not already approved
   Client Signature: _____
8) **Do all samples have the proper Acid pH:** (Yes) No N/A _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	14	8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic	KM 14 15	SOC Kit	
250 mL plastic	7	Non-ConTest Container	
40 mL Vial - type listed below	80	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 52 # Methanol 6
Bisulfate 22 # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KKM **Date/Time:** 10/22/15 9.39

APPENDIX C

SOIL BORING LOGS

ATC ASSOCIATES INC.

BORING LOG: TMW-1

Site:

Date(s) Drilled : 10-20-2015
Drilling Conractor : CSI
Drilling Method : DP/Auger

Boring Diameter : 4.25
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N				0' GRASS/ORganics
4	Y				.2'
6				CL	ORANGE/RED, DRY, CLAY
8	N				
10					.75'
12	Y			CL	very light grey, DRY, CLAY
14					
16	N				2'
18				CL	Orange/Grey, DRY, Silty CLAY
20					
22					3.5
24				CL	Dark grey, moist, CLAY
26					5' — metal, glass, PLASTIC, wire fragments
28				CL	(2.5 ft of Limited Recovery) BROWN/GREY, moist, SILTY CLAY
30					
32					10'
34				CL	(1 ft of Limited Recovery) Light BROWN, MOIST, CLAY
36					
38					15' — METAL
40					DRY PARTIALLY WEATHERED ROCK
					17' — REFUSAL

Boring Termination Depth: 17'
Groundwater Depth: 14.72 ~~TOC~~ Below TOC (14.22 BGS)
Samples collected: —

Additional Notes: Boring collapsed and the Bottom of Screen is set at 14.5' BGS.

07-03-2013 S:\EnvirolLandfill Contract\NONCD0000691 (Old Raleigh LF #9)\Boring Logs\Boring Log Template.bor

ATC ASSOCIATES INC.

BORING LOG: TMW-2

Site: Cary Dump

Date(s) Drilled : 10-20-15
Drilling Conractor : CSI
Drilling Method : DP/Auger

Boring Diameter : 4.25
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0		N/A	N/A		Grass/Organics
2	N			CL	Dark damp silty clay
4					
6					1'
8					
10					
12					2' Brown Grey Wet silty
14				CL	clay
16					
18					
20					
22					
24				~~SM~~	6' Brown Grey Wet silty
26					Sand
28				Sm	• Rounded Pebble sized
30					rocks at bottom of
32					well
34					• Refusal
36					
38					
40					

Boring Termination Depth: 6' Refusal
Groundwater Depth: —
Samples collected: —

Additional Notes:

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #8)\Boring Logs\Boring Log Template.bor

ATC ASSOCIATES INC.

BORING LOG: TMW-3

Site:		
Cary Dump	Date(s) Drilled : 10-19-2015 Drilling Conractor : CSI Drilling Method : HA-5' then DP/A	Boring Diameter : 4.25 Sampling Method : — Sampling Interval : — Logged By : C. Nobles

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N	N/A	N/A		~~Grass/Organics~~	
2				CL	Moist Dark Brown Silty clay	
4					1' Moist Brown Grey silty clay	
6						
8				CL		
10						
12					2.5' Wet Grey/Blue Silty Clay	
14					• Gravel sized quartz fragments found	
16				CL		
18						
20						
22					4' Refusal	
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 4' Refusal
Groundwater Depth: —
Samples collected: —

Additional Notes: ~~#~~ 2 Plastic Peices were found close to 4' Refusal

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #8)\Boring Logs\Boring Log Template.bor

ATC ASSOCIATES INC.

BORING LOG: TMW-4

Site:

Date(s) Drilled : 10-19-2015
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : 2"
Sampling Method : Macrocore
Sampling Interval :

Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					0'
2	N			CL	Dry, Red, CLAY
4					
6	N				2.5'
8					
10	Y			CL	Red-Brown, Dry, CLAY
12					
14					7'
16					(Limited Recovery)
18	N			CL	Black, Dry, Silty Clay w/ wood & Rock fragments
20					10'
22	Y			CL	(Limited Recovery) Black, Dry, Silty Clay w/ wood, glass & metal fragments
24					15'
26					(Limited Recovery)
28				CL	Blue-grey, moist, Silty Clay
30					20'
32				CL	Light Grey, wet, CLAY w/ glass fragments
34					
36					22' - PWR*
38					
40					

Boring Termination Depth: 22'
Groundwater Depth: [redacted] DRY
Samples collected: —

Additional Notes: Limited H2O in well

* PWR = Partially Weathered Rock

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #9)\Boring Logs\Boring Log Template.bor

Groundwater Collection Sampling Log
(Monitoring Well, Temporary Well)

Site: ~~Elon College LDFL~~ Cary Dump **Well ID:** TMW-2

Project #: ~~720DP-2004~~ **Date:** 10-22-2015

Sampled by: Robert Brooks **Weather:** Sunny 60s

Sample Method: Grab Other: **Sample Media:** GW Surface Water Potable Well Pore Water

Equipment Used (circle/note as needed)

Water Level Probe:

Turbity Meter:

Pump:

Water Quality Meter:

Analyses: and/or Same as:

X	VOCs	8260+TICs
X	1,4-dioxane by	8260SIM
X	SVOCs	8270+TICs
X	Inorganic Hazardous Substances	6020
X	Mercury	7470/7471
X	Ammonia/Nitrate	SM4500
X	Sulfate	ASTM D516

Notes: Liters: For 0.75" well, 5 well volumes = water column * 0.4345

For 0.75 inch wells, DTW not measured, cannot put probe into well with tubing

Well Depth: 6 ft BGS

Initial Water Level: 3.67 BGS

Time started purging: —

Measurements (units) stablization criteria	Time	Temp (deg C) +/- 1 deg C	Conductivity (mS/cm) +/- 10%	pH (units) +/- 0.1	Turbity (NTU) <10	Water Level (ft)	Amount Purged (L)	Notes (color, odor)
~~Initial~~								
Initial +	9:00	20.32	1.389	8.40	59.4	—	—	Yellow tint
2								
3								
4								
5								
Final (if not stable)								

Sample Time: 9:00 AM

Because of low volume of H_2O able to be collected from well, only one initial ~~Rea~~ measurement is recorded.

ATC ASSOCIATES INC.

BORING LOG: B-40

Site:

Date(s) Drilled : 10-19-2015
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : 4.25"
Sampling Method :
Sampling Interval :

Logged By : R BRIDA

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2				SM	0' ~~Rocky Silty~~ Grey to Black Rocky silty SAND w/ Pebble Sized Rocks
4	No				
6					1.5'
8				CL	Blue-Grey + TAN Silty CLAY
10					5'
12					
14				CL	Grey - Brown CLAY
16					8'
18					END OF BORING
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 8'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

ATC ASSOCIATES INC.

BORING LOG: B-41

Site:

Date(s) Drilled : 10-19-2015
Drilling Conractor : CSF
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method :
Sampling Interval :

Logged By RB :

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2				CL	0 — GRASS w/ BROWN SILTY CLAY
4				CL	0.25' — BROWN SILTY CLAY w/ Pieces of Asphalt
6					
8	No			CL	0.75' — BROWN SILTY CLAY w/ ~~Pieces of~~ Pebble to cobble sized Rock Fragments + Smaller Fragments of Asphalt
10					
12				CL	3.5' — Brown to grey, moist, silty CLAY
14					
16				CL	4' — DARK Grey to BLACK Silty CLAY
18					
20				CL	9.5 — BLUEISH Grey CLAY
22					
24					
26					
28					
30					11.0 — End of BORING
32					
34					
36					
38					
40					

Boring Termination Depth: 11'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

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ATC ASSOCIATES INC.

BORING LOG: B-42

Site:

Date(s) Drilled	: 10-19-2015	Boring Diameter	: 4.25
Drilling Conractor	: CSF	Sampling Method	: —
Drilling Method	: HSA	Sampling Interval	: —
		Logged By	: RB

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2				CL	0' GRASS w/ BROWN SILTY CLAY
4	NO				0.25'
6				CL	BROWN SILTY CLAY
8					1.5'
10				CL	BROWN SILTY CLAY w/ Pebble to Cobble sized ROCK + Asphalt
12					2' → GRAVEL
14				CL	Grey to BLACK SILTY CLAY
16					7'
18				CL	BROWN CLAY
20					9' – Pieces of SANDY QUARTZ Pebble to cobble ROCK fragments BROKEN BY DRILL / end of BORING
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 9'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

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ATC ASSOCIATES INC.

BORING LOG: B-43

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-22-15
Drilling Contractor : CSI
Drilling Method : Auger

Boring Diameter : 4'
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

hand auger

Auger sections

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0	0		Grass/organics
2				CL	brown grey damp silty clay
4	Y				3' Wast encountered (plastic, metal, rubber)
6					
8	N				
10					
12					7' No waste encountered Past 7'
14					
16					
18					
20					9' grey/blue damp silty clay
22				CL	
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 9'
Groundwater Depth: —
Samples collected: —

Additional Notes: # Waste encountered 3'-7' / 4' of wast

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ATC ASSOCIATES INC.

BORING LOG: B-44A

Site: Cary Dump

Date(s) Drilled : 10-22-2015
Drilling Conractor : CSI
Drilling Method : DP/A

Boring Diameter : 4.25
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0		0	0		
2				CL	Brown orange damp silty clay
4	N				
6					
8					5'
10				CL	
12					
14					8' Brown damp silty clay
16					
18					
20				CL	
22					
24					10' Brown orange silty clay
26					
28					
30					- No wast encountered
32					
34					
36					
38					
40					

Boring Termination Depth: 10'
Groundwater Depth:
Samples collected:

Additional Notes:

ATC ASSOCIATES INC.

BORING LOG: B-44B

(Page 1 of 1)

Site: Cary landfill

Date(s) Drilled : 10-22-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —
Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	No			GW	0 Rock gravel
2	~~Yes~~ No			CL	0.5 Red Silty clay moist (Possibly fill)
4	No			CL	tannish gray Silty clay Dry (Plastic Pieces)
6	Yes			CL	2 greyish silty clay moist w/ gravel
8				CL	5 grayish silty clay moist (Petro odor) (Paper/wire) very moist
10	Yes			CL	7 Gray silty clay moist wire Paper
12				CL	8 gray Silty clay very moist Petro odor / Paper, wire, clothing
14				CL	15 Gray Silty clay very moist (native Soil)
16	No				16 End of boring
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 16'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

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ATC ASSOCIATES INC.

BORING LOG: B-45

(Page 1 of 1)

Site:		
Cary Dump	Date(s) Drilled : 10-22-15	Boring Diameter : 4
	Drilling Conractor : ESI	Sampling Method : —
	Drilling Method : Auger	Sampling Interval : —
11:10		Logged By : C. Nobles

Auger rod intervals 5'

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0					Grass/organics	
2		0	0	CL	brown wet silty clay with gravel sized rock.	
4	N					
6						
8					7' wet muddy brown silty clay with sand clasts in it.	
10				CL		
12						
14						
16					10' No waste encountered	
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 10'
Groundwater Depth: —
Samples collected: —

Additional Notes: No waste

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ATC ASSOCIATES INC.

BORING LOG: B-46 A

Site:

Date(s) Drilled : 10-22-2015
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter :
Sampling Method :
Sampling Interval :

Logged By : R BRONK

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N				
4				CL	0 BROWN SANDY SILTY CLAY
6	Y				
8					3
10					
12				CL	BROWN SANDY SILTY CLAY
14					
16					5
18				CL	GREY SILTY CLAY W/ PARTICLES OF PLASTIC, GLASS, & WOOD
20					6
22					
24				CL	SANDY SILTY CLAY W/ WOOD PARTICLES
26					6.5
28					REFUSAL
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 6.5
Groundwater Depth: —
Samples collected: —

Additional Notes: —

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ATC ASSOCIATES INC.

BORING LOG: B-46 B

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-22-15
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : 4"
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					Leaves/Mulch
2	N	0	0	CL	0 brown damp silty clay
4					1'
6	Y			CL	
8					
10	N				4.5 Waste: plastic, glass (hard plastic, thin bags) in moist silty brown clay
12					
14					
16				CL	
18					
20					7' Reached grey/blue native soil with no trash
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 8 ft
Groundwater Depth: —
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-46 C

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-22-15
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : 4 in
Sampling Method : —
Sampling Interval : —
Logged By : C. Nables

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0		0	0		Grass/Gravel
2	N				gravel
4				CL	.5" dard brown silty clay
6					
8					2.5'
10				CL	light grey dry sandy clay
12					
14					7'
16				CL	dark grey moist silty clay
18					
20					9' Refusal
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 9'
Groundwater Depth: —
Samples collected: —

Additional Notes: * No Waste encountered

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BORING LOG:

B-47A

Site:

Date(s) Drilled	: 10-21-15	Boring Diameter	: 4.25"
Drilling Conractor	: CSI	Sampling Method	: —
Drilling Method	: HSA	Sampling Interval	: —
		Logged By	: AM

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0–40	No			GW	0' – 0.5': gravel / Grey (DRY)	
				CL	0.5' – 2': Reddish / Gray (DARK) Silty clay (moist)	
				CL	2' – 4': Dark Grey Silty clay (moist)	
				/	4' – 5': Appears to be compost (Not considered waste)	
				CL	5' – 10': Greyish tan Silty clay (moist) (Native Soil)	

Boring Termination Depth: 10'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

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ATC ASSOCIATES INC.

BORING LOG:

B-47B

Site: Cary land fill

Date(s) Drilled: 10-21-15
Drilling Conractor: CSI
Drilling Method: HSA

Boring Diameter: 4.25"
Sampling Method: —
Sampling Interval: —

Logged By: RB

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0–2	N			GW	0 gravel/grey dry
2–4					
4–6					0.5
6–8				CL	Black Silty clay
8–10					
10–12					2 Apparent Compost (grey) (no trash observed)
12–14					
14–16					4
16–18				CL	Black Silty clay
18–20					
20–22					6
22–24				CL	Brown Silty clay
24–26					10 - end of boring
26–28					
28–30					
30–32					
32–34					
34–36					
36–38					
38–40					

Boring Termination Depth: 10'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

ATC ASSOCIATES INC.

BORING LOG: B-48A

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-20-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —

Logged By : ~~Cory Nobles~~ AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					Grass/wet mud
2	N	0	0	CL	0 Wet grey silty clay
4					
6					5
8				CL	Dark brown/grey (mud) silty clay
10					
12					6 refused
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 6 ft
Groundwater Depth: 4 ft
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-49A

Site: Cary landfill

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —
Logged By : AM

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					0 crushed Pavement
2					
4					0.5
6				CL	light tan/Red Silty clay moist
8	N				
10				CL	1.5 light tan/grey silty clay dry
12					
14				CL	2.5 bluish grey silty clay moist
16					
18				CL	3.5 Black silty clay moist
20					
22				CL	5 Brown/tan Silty Clay moist
24					
26					10 end of boring
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 10'
Groundwater Depth: —
Samples collected: —

Additional Notes: —

ATC ASSOCIATES INC.

BORING LOG: ~~B~~ B-49 B

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : —
Sampling Method : Grab
Sampling Interval : —
Logged By : C. Nobles

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0	0		~~Grey Gravel~~
2	N			GW	0 gray Dry gravel
4					1'
6	Y			CL	
8	Y				
10				CL	3' Black silty clay dry
12					
14				CL	dark orange damp silty clay
16					5'
18					Black silty clay (damp) w/ wood chips
20					6'
22					
24				CL	Brown silty clay damp metal fragmets, small peices of brick, wood
26					
28					7' Refusal @ 7ft.
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 7ft.
Groundwater Depth:
Samples collected: —

Additional Notes: refusal could be from wast or unknown.
not very much wast found. Just small fragments

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ATC ASSOCIATES INC.

BORING LOG: B-50A

(Page 1 of 1)

Site: Cary landfill B-50A

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —
Logged By : AM

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0						
2	N			CL	0 Dark Brown Sandy Clay	
4					1.5 ft	
6	N			CL	1 Dark Red Silty Clay	
8					3 Asphalt @ last 2 inches	
10				CL	1 Dark grey dry Silty clay	
12					5	
14				CL	1 ~~Refusal~~ Dark gray dry Silty Clay	
16					6 - Refusal	
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 6
Groundwater Depth: —
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-50B

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-21-15
Drilling Conractor : CST
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —
Logged By : AM

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0						
2			SM	0	Organics dark brown Silty Sand	
				6in		
4	N		CL	1	Silty Clay dark red moist	
6				1.5ft	Possibly fill	
8						
10			CL	1	Silty clay dark ~~red~~ moist	
				4 ft	Gray	
12						
14			CL	1	Dark gray	
16				5	Silty clay moist	
18						
20				1	Powder - light gray ~~Sandy~~ Silty CLAY	
22				6		
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-51A

Site: Cary land fill

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25
Sampling Method : —
Sampling Interval : —
Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N				
2				SM	0 Organics dark brown Silty Sand
4	N				6in Silty Clay dark red moist
6	N			CL	1 1.5ft Possible fill material
8				CL	1 Silty Clay dark red moist 4ft Possible fill
10	N				
12				CL	1 Silty Clay dark red moist 5.5ft
14				CL	1 Silty Clay dark gray moist
16					
18					10
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 10
Groundwater Depth: —
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-51B

(Page 1 of 1)

Site: Cary landfill

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —

Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N		SM	1	Silty Sand / large quantity of
4	N			2	rock gray
6	N		SM	1	Silty Sand reddish gray moist
8	Y			3	Some gravel
10			CL	1	reddish gray ~~silt~~ Silty clay moist
12	N			5	
14	N		CL	1	Dark gray Silty clay
16				10	Pieces of styrofoam, plastic, wire,
18			CL	1	Dark reddish gray
20				13	Silty clay
22			CL	1	Dark bluish gray
24				14	Silty clay Dry (native Soil)
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 14 ft
Groundwater Depth: —
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-52A

Site: Cary landfill

Date(s) Drilled : 10-20-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —

Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N			CL	0 Red Silty Clay Moist
4	Yes				
6				CL	3 Brown-gray Silty clay moist Small Glass Pieces
8	Yes				
10				CL	5 Brown-gray Silty Clay Moist Small Pieces of wood - minimal
12					
14	No				
16				SM	10 Grey Silty Sand moist no waste (native soil)
18					
20					15 end of boring
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: —

Additional Notes:

ATC ASSOCIATES INC.

BORING LOG: B-52B

(Page 1 of 1)

Site: Cary land Fill

Date(s) Drilled : 10-21-15
Drilling Conractor : CSI
Drilling Method : Auger

Boring Diameter : 4.25 in
Sampling Method : –
Sampling Interval : –
Logged By : Am

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	~~VOCs (ppm)~~	USCS	DESCRIPTION
0					
2	N			CL	Silty clay red moist – Possibly fill material
4	N			CL	Grey-red Silty clay @ 4 ft Nylon material looks like silt fence
6					
8	Y				
10				CL	Dark grey Silty clay moist Plastic (bag) pieces
12					
14	N				
16				CL	light grey Silty clay moist
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: None
Samples collected: –

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: BT-52C

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Site: Cary landfill

Date(s) Drilled : 10-2-15
Drilling Conractor : CSI
Drilling Method : HSA

Boring Diameter : 4.25"
Sampling Method : T
Sampling Interval : —

Logged By : Am

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	W			CL	0 Gray/Red Sandy clay Appears to be fill + large pocks
4	W				2.5
6				CL	Red Sandy Clay (moist) Appears to be fill matrix
8	N				
10					4
12	N			CL	Dark grey Silty clay, moist
14					
16					9
18				CL	Dark grey Silty clay
20					13
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 13
Groundwater Depth: —
Samples collected: —

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-53 A

Site:			
Cary Dump	Date(s) Drilled : 10-19-2015	Boring Diameter : 4.25	
	Drilling Conractor : CSI	Sampling Method :	
	Drilling Method : Direct Push	Sampling Interval : —	
		Logged By : C. Nobles	

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					Grass/Organics
2	N	0	0	CL	Brown Dry Sandy clay
4					
6	N				5' Moist dark charcoal clay
8	Y			CL	
10					
12	Y				8' Moist ~~dark charcoal~~ BLACK clay. Small Fragments of glass, Plastic, metal
14					
16				CL	
18	Y				
20					10' Moist dark black clay (glass & wood)
22					
24				CL	
26	N				14' Moist dark black clay (glass, Plastic) -Limited recovery
28					
30				CL	
32					
34					24 Light grey clay Wet (no waste)
36				CL	
38					
40					

Boring Termination Depth: 24'
Groundwater Depth:
Samples collected:

Additional Notes:

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #9)\Boring Logs\Boring Log Template.bor

ATC ASSOCIATES INC.

BORING LOG: B-54A

Site: Cary Dump

Date(s) Drilled : 10-22-2015
Drilling Conractor : CSI
Drilling Method : DP/A

Boring Diameter : 4.25"
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0	0		~~Grass/Organics~~
2	N			CL	1.5' Dry orange silty clay (igneous rock fragments)
4	N				
6	N				
8				CL	
10					
12					2' Dry silty clay Dark black asphalt chancks (gravel sized)
14					
16				CL	
18					
20					
22					3.5 Dark grey dry silty clay (single metal fragment found)
24					
26				CL	
28					
30					
32					10' Grey damp smooth clay
34					
36					
38					— No waste
40					

Well:
Elev.:

Boring Termination Depth: 10'
Groundwater Depth:
Samples collected:
Additional Notes: # one fragment of metal found not calling it waste

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #8)\Boring Logs\Boring Log Template.bor

ATC ASSOCIATES INC.

BORING LOG: B-54B

(Page 1 of 1)

Site: Cary Dump

Date(s) Drilled : 10-22-2015
Drilling Conractor : CSI
Drilling Method : DP/A

Boring Diameter : 4.25
Sampling Method : —
Sampling Interval : —
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0		0	0		Grass/Organics
2	N				
4				CL	
6					
8	N				5.5' orange red dry silty clay
10					
12					
14				CL	
16					
18					10' Grey damp silty clay
20					
22					
24					
26					- No Wast
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 10'
Groundwater Depth:
Samples collected:

Additional Notes:

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #8)\Boring Logs\Boring Log Template.bor

APPENDIX D

CERTIFICATION

CERTIFICATION

Remedial Investigation – Media Sampling
Task Order 602DP-4
Cary Dump
313 North Dixon Avenue
Cary, Wake County, North Carolina
ID No. NONCD0000602

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Justin C. Ballard, P.G.
Project Manager

NORTH CAROLINA LICENSED SEAL 2257 GEOLOGIST JUSTIN C. BALLARD

Signature _____ *Date* 2/29/2016

Before me personally appeared Justin C. Ballard to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledge to and before me that Justin C. Ballard executed said instrument for the purposes therein expressed.

Witness my hand and official seal this 29th day of February, 2016.

Irene A Byers
Notary Public

August 27, 2017
My Commission Expires On

North Carolina
State Of

Wake
County Of

IRENE A BYERS
NOTARY PUBLIC
WAKE COUNTY
STATE OF NORTH CAROLINA

Official Seal