Cochituate Rail Trail Supplemental Sampling Report

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October 3, 2016

Sign-off Sheet

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1.0 INTRODUCTION AND BACKGROUND

Stantec has completed supplemental sampling along portions of the Cochituate Rail Trail (a railroad right of way between Cochituate Road and North Main Street) in Natick, Massachusetts (the "Property"), on behalf of Town of Natick (the "Client"). This sampling supports the previous sampling completed by Stantec as part of a Phase I Environmental Site Assessment (ESA) report dated May 27, 2016.

The previous sampling was performed in accordance with CSX Transportation Inc. sampling guideline procedures (provided within the purchase and sale agreement between the Town of Natick and CSX) and MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails*. That sampling consisted of a total of thirty (30) five-point composite soil samples (SS-1 through SS-30) collected from the entire former rail line (approximately 2.5 miles) from Cochituate Road to the intersection of the former rail line with the active rail line near Natick Center. These five-point composite samples spanned thirty sections (approximately 470 feet in length each) and were submitted for analysis of lead, arsenic, extractable petroleum hydrocarbons (EPH) with polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). Additional composite soil samples were collected at former rail switch locations and an area adjacent to the Edison building substation.

In addition and upon the Town's request, Stantec collected a total of thirty (30) two-point composite soil samples (SS-1 OT through SS-30 OT) every 470 feet from outside the former rail bed but within the Property boundaries. These samples were analyzed for lead and arsenic, and were collected in order to provide additional data coverage to what the CSX guidelines require.

Laboratory analytical results indicated that several analytes exceeded applicable Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) RCS-1 Reportable Concentrations which include arsenic (33 samples), lead (2 samples) and PAHs (30 samples). Furthermore, the concentration of arsenic detected in eleven (11) samples exceeded the applicable MassDEP imminent hazard concentration of 40 parts per million (ppm).

Stantec concluded that all of the detected contaminant concentrations were attributable to the historic use of the Property as a railway. Furthermore, contaminant concentrations were found to be consistent with background concentrations in soil containing coal or wood ash as well as being consistent with contaminants anticipated to be present along railroad right of way from the use of arsenic and lead-based herbicides and preservatives for railroad ties along former rail lines. Stantec further concluded that the presence of these contaminants above RCS-1 Reportable Concentrations were exempt from release notification in accordance with 310 CMR 40.0317(8) and (9) as a release or threat of release which do not require notification to MassDEP resulting from the application off pesticides in a manner consistent with their labeling and releases rrelated to coal, coal ash or wood ash.

Although the contaminants found at the Property are exempt from reporting under the MCP, human exposure to contaminated soils during construction activities must be limited in accordance with the MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails*. Stantec developed a Soil Management Plan (SMP) to manage and reduce exposure to potentially impacted soils, which was included in the Phase I report. These recommendations for soil management and minimization of exposure to historic contaminants must also be applied to the results and finding of this supplemental work.

2.0 SUPPLEMENTAL SAMPLING

To reduce potential uncertainty in assessing historic contaminant concentrations present along the rail corridor the Town of Natick requested that Stantec collect additional soil samples along specific sections of the Cochituate Rail Trail where adjacent historic industrial use was identified. On September 13, 2016, Stantec personnel collected 25 discreet soil samples from five of the thirty sections of former rail bed previously sampled (see figures 3 through 6 for sections and soil sample locations). Stantec collected a "grab" (non-composite) soil sample from 0 – 6 inches at regular intervals (generally between 50-100 feet), although locations were biased toward features or proximity to features (i.e., locations biased towards areas where increased potential for exposure is expected, such as ball fields, apartment complexes, parking areas, etc., or where features prevented full access, such as large soil stockpiles on the rail corridor). The following table indicates the rationale for samples at specific areas of concern or where sampling was limited. See Appendix B for photographs of the areas sampled.

Sample ID	Location Notes
Sections 13 and 14	Samples biased towards the former Johnson Wax company (currently Toolmex), but on slope within railroad right of way
26-5	Near embankment with obvious fill material
27-1	Near location where human soil disturbance observed
27-2	Area of stressed vegetation
27-3	Area of soil removal observed
27-4	Near pile of railroad ties
27-5	Location dictated by large stockpile of soil
27-6	Near ball field entrance
27-7	Near ball field entrance
27-8	Near Edison building
27-9	Location dictated by large stockpile of soil
28-2	In mounded area adjacent to trail
28-3	In mounded area adjacent to trail
28-4	Adjacent to soil removed for stream culvert

Sample ID indicates the section and number of sample within that section. For example, sample 26-5 was the fifth sample collected within section 26 (see Figures 2 through 6).

3.0 RESULTS

Laboratory analytical results indicate that EPH fractions, PAH analytes, arsenic, lead, and PCBs were detected at varying concentrations with detections of one or more of the above analytes present in nearly every sample. The following table summarizes the supplemental sampling analytical results. For a full summary table, see Table 1. Laboratory data sheets are attached in Appendix A.

Contaminant	RCS-1 (mg/kg; ppm)	Number of samples not detected	Number of samples detected <RCS-1	Number of Samples detected >RCS-1	Range of detections (mg/kg)
EPH fractions	*1,000-3,000*	4	21	0	11.6 – 300
PAHs	*0.7 – 1,000*	3	13	9	varies
Arsenic	*20*	0	14	11	3.59 – 111
Lead	*200*	0	21	4	6.67 – 1,230
PCBs	*1*	18	7	0	0.024 – 0.11

The results of the supplemental sampling indicate that historic railroad contaminants were detected at similar concentrations to the initial round of sampling performed for the Phase I. Stantec observed that the range of contaminant concentrations detected for arsenic and lead shows a wider variation from low to high concentrations which is likely attributable to the fact that the supplemental sampling event did not utilize composite sampling while the initial samples were five-point composite samples which will average out wider variability.

The following describes the current sampling results compared to the initial sampling results:

Arsenic: Prior sample results indicated that 33 of 67 samples (49%) exceeded the RCS-1 reportable concentration of 20 ppm. 11 of those 67 (16%) contained arsenic above 40 ppm (the level for arsenic within the upper 12 inches of soil which could pose an imminent hazard unless access is restricted. Note that these concentrations are exempt from reporting as a release as indicated in the Phase I report).

Current sample results indicate that 11 of 25 samples (44%) exceeded the RCS-1 reportable concentration of 20 ppm, and 6 of those 25 (24%) contained arsenic above 40 ppm.

Lead: Prior sample results indicated that 2 of 67 samples (3%) exceeded the RCS-1 reportable concentration of 200 ppm.

Current sample results indicate that 4 of 25 samples (16%) exceeded the RCS-1 reportable concentration of 200 ppm.

PCBs: Both the prior and current data indicate that PCBs were not detected at concentrations exceeding the RCS-1 reportable concentrations.

EPH: Both the prior and current data indicate that EPH fractions were not detected at concentrations exceeding the RCS-1 reportable concentrations.

PAHs: Both the prior and current data indicate that various PAHs analytes exceed applicable RCS-1 reportable concentrations.

4.0 CONCLUSIONS

Results of the supplemental sampling are consistent with and support the prior results of soil sampling performed as part of the Phase I Environmental Site Assessment: EPH, PAHs, arsenic, lead, and PCBs are present in surficial soil at most locations, which is consistent with the historic use of the Property as a rail line. The supplemental sampling has not identified evidence of any other releases at the Property in surficial soil that may have had a source other than historic railroad use.

As detailed in the Phase I, although some samples contained contaminants above MassDEP's RCS-1 Reportable Concentrations, contaminants present which exceed the RCS-1 Reportable Concentrations on the rail trail are exempt from release reporting since the contaminants are consistent with historic use and practices consistent with former rail line use in accordance with the MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails*.

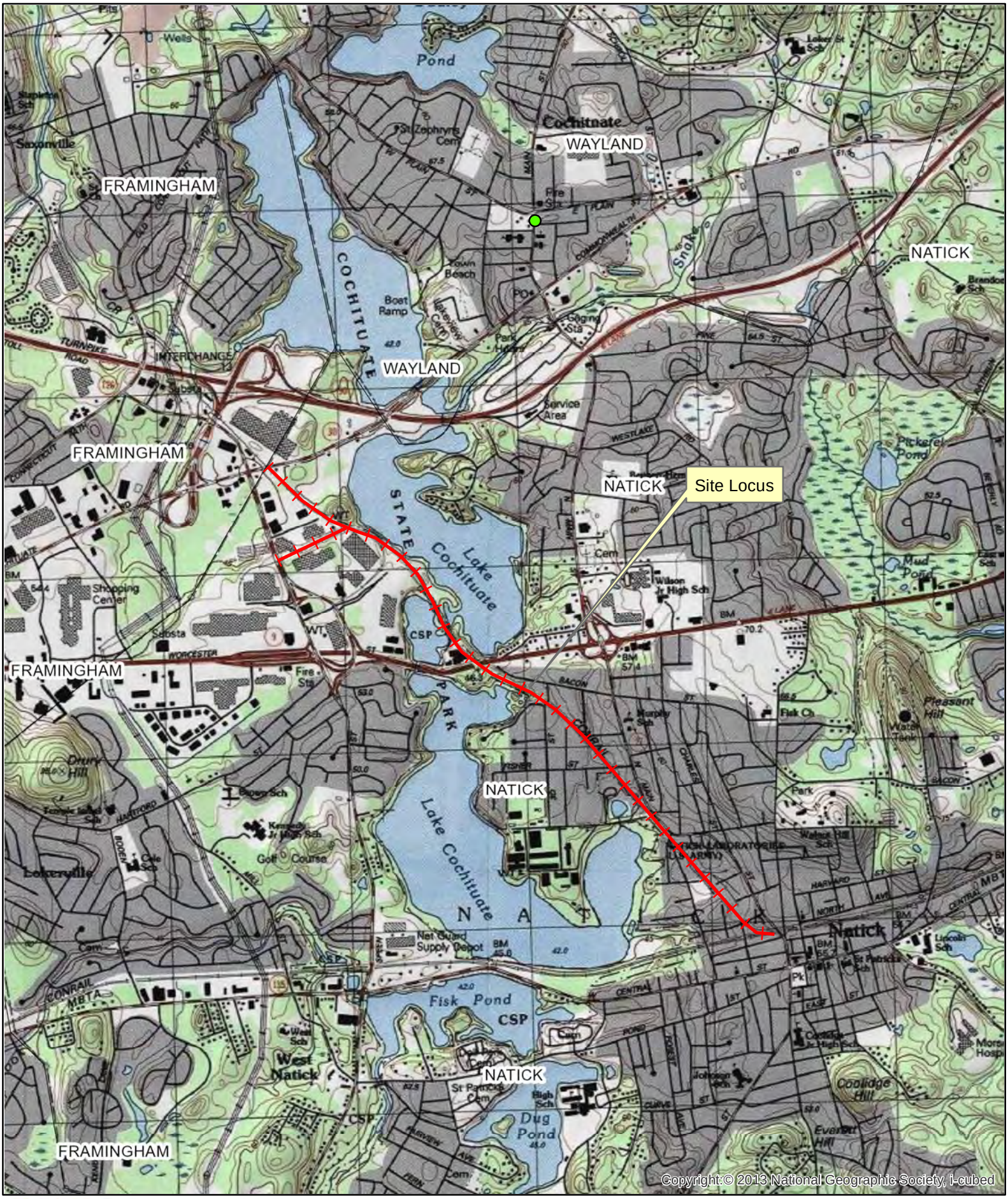
Although the contaminants found at the Property are exempt from reporting under the MCP, human exposure to contaminated soils during construction activities must be limited in accordance with the MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails*. Stantec's SMP (attached to the Phase I report) provides steps to manage and reduce exposure to potentially impacted soils. The SMP and MassDEP's guidance document should be reviewed and considered during construction activities.

5.0 REFERENCES

Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails, Massachusetts Department of Environmental Protection

Cochituate Rail Trail Phase I Environmental Site Assessment, May 27, 2016

CSX Sampling Protocols attached as Exhibit B to the Revised Purchase and Sale Agreement between the Town of Natick and CSX Transportation, Inc., dated June 2, 2015



0 0.25 0.5 1 1.5 Miles

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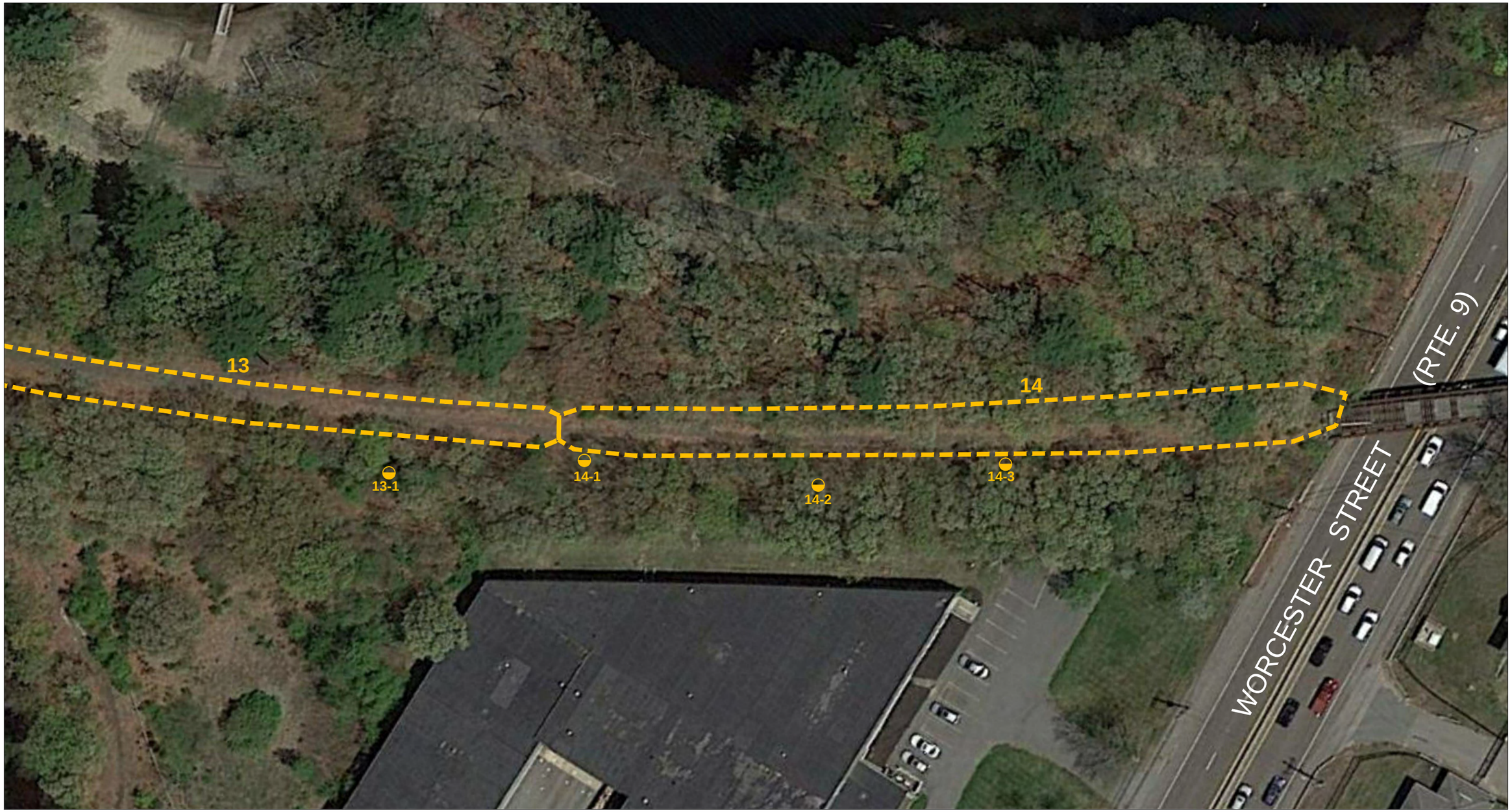
Stantec

Figure 1
Site Locus Map
Cochituate Rail Trail
Natick, Massachusetts
Source: ArcGIS Online Datalayers



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ORIGINAL SHEET - ANSI B

Date:
05/25/2016

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Legend

14-1 SOIL SAMPLING LOCATION

14 COMPOSITE SOIL SAMPLING LOCATION

Client/Project

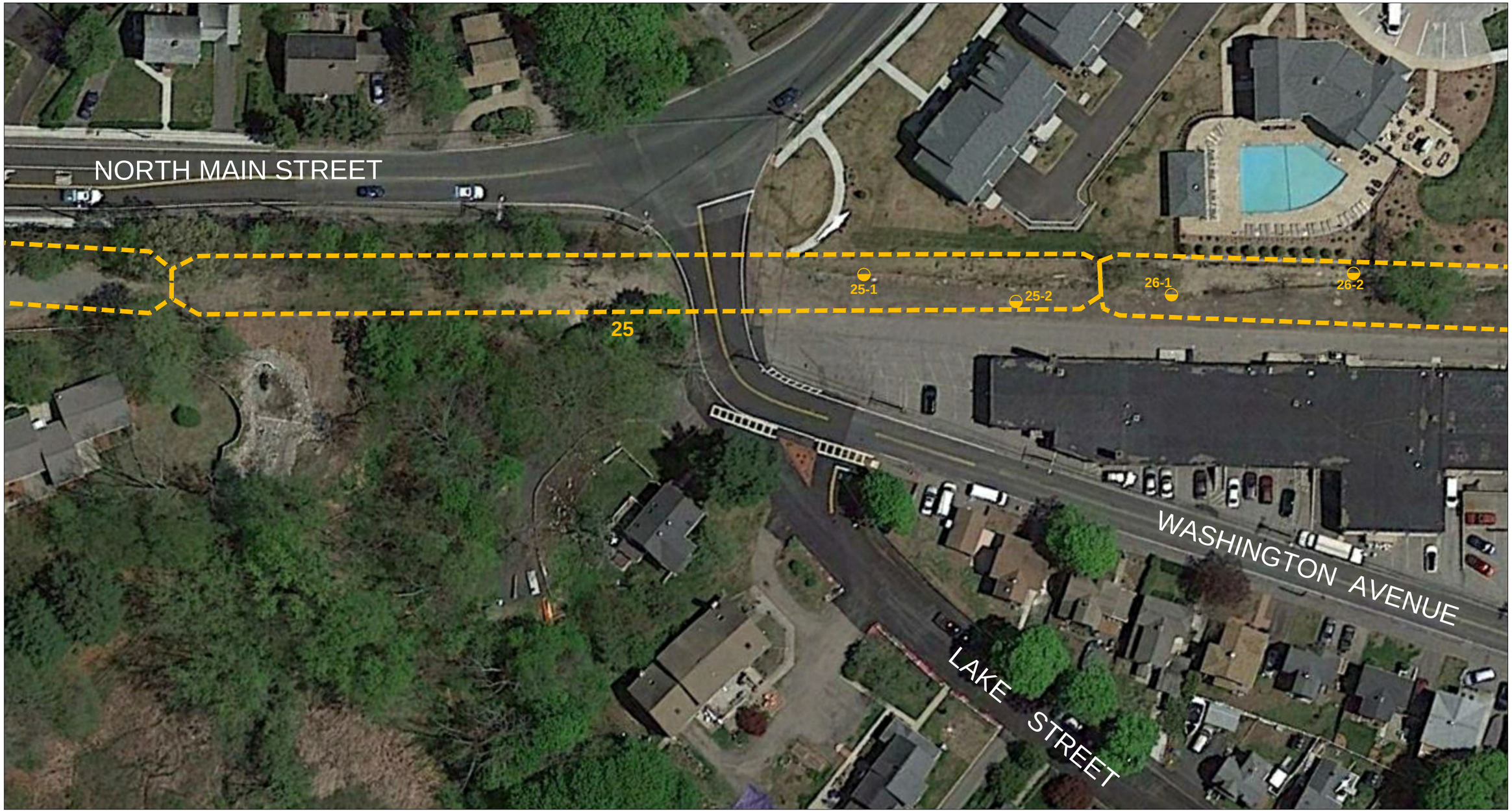
TOWN OF NATICK
NATICK, MASSACHUSETTS

Figure No.

2

Title

SOIL SAMPLING MAP
NATICK MASSACHUSETTS



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25-1 SOIL SAMPLING LOCATION

25 COMPOSITE SOIL SAMPLING LOCATION

Client/Project

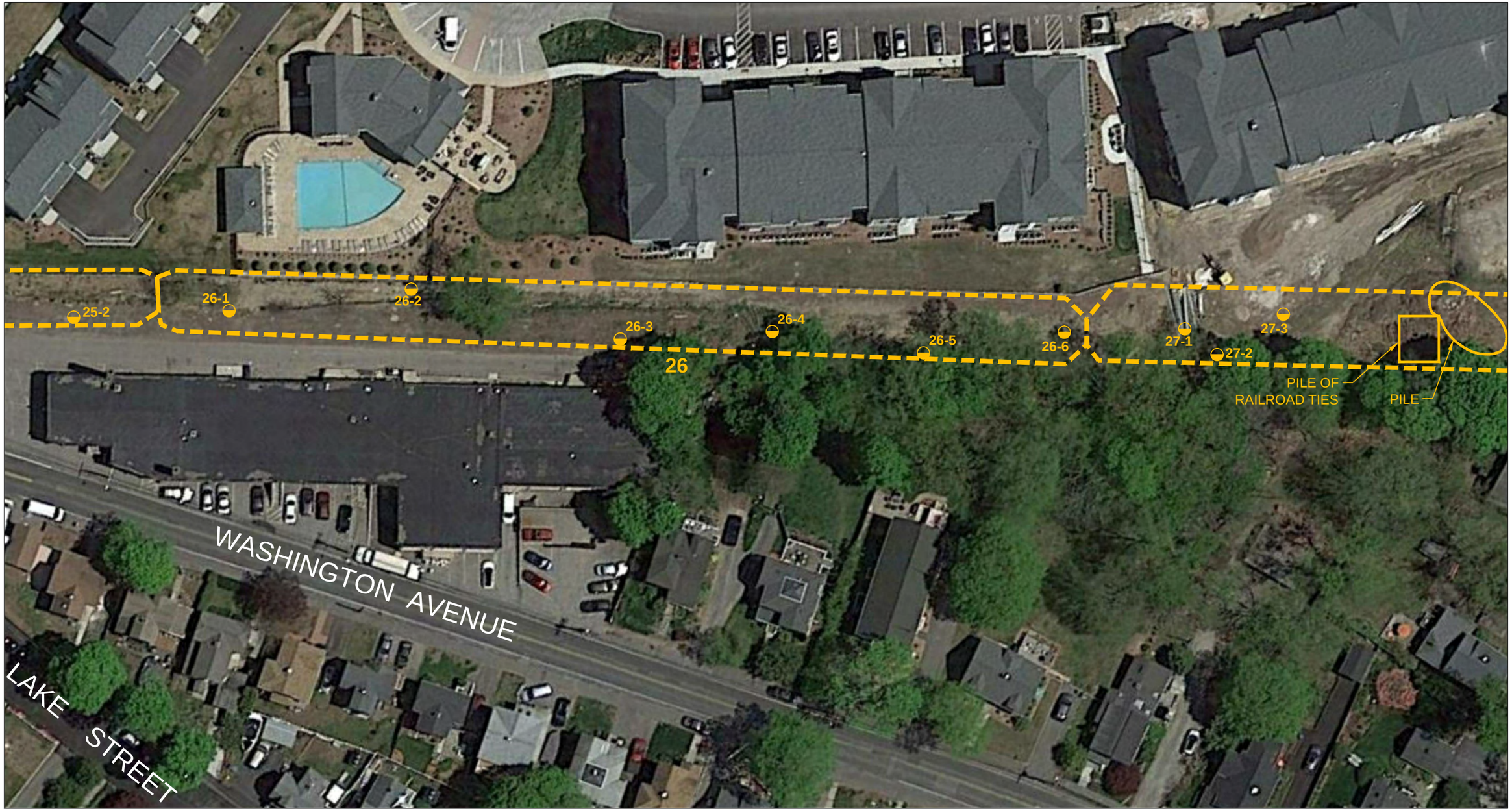
TOWN OF NATICK
NATICK, MASSACHUSETTS

Figure No.

3

Title

SOIL SAMPLING MAP
NATICK MASSACHUSETTS



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26-1 SOIL SAMPLING LOCATION

26 COMPOSITE SOIL SAMPLING LOCATION

Client/Project

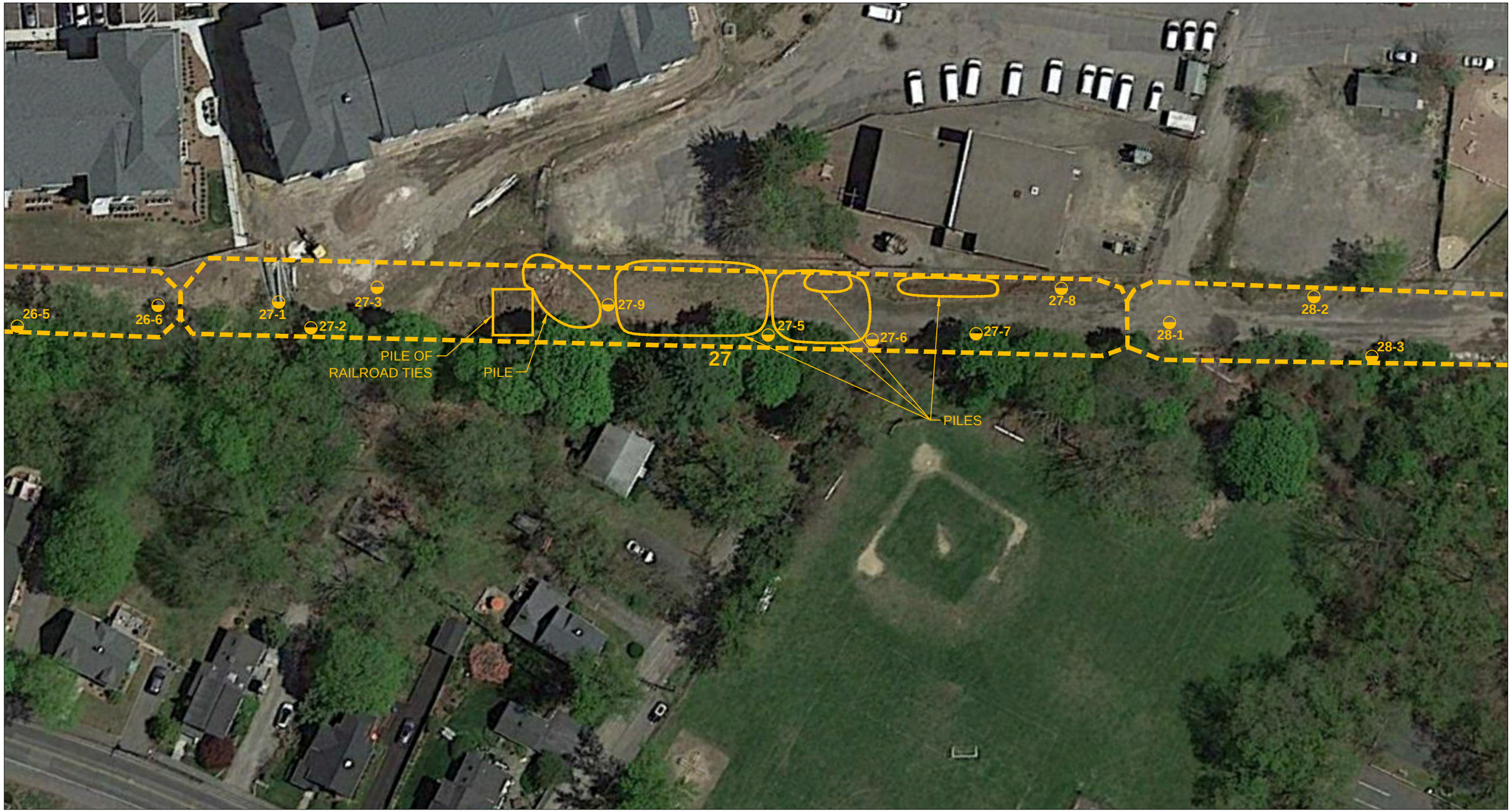
TOWN OF NATICK
NATICK, MASSACHUSETTS

Figure No.

4

Title

SOIL SAMPLING MAP
NATICK MASSACHUSETTS



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27-1 SOIL SAMPLING LOCATION

27 COMPOSITE SOIL SAMPLING LOCATION

Client/Project

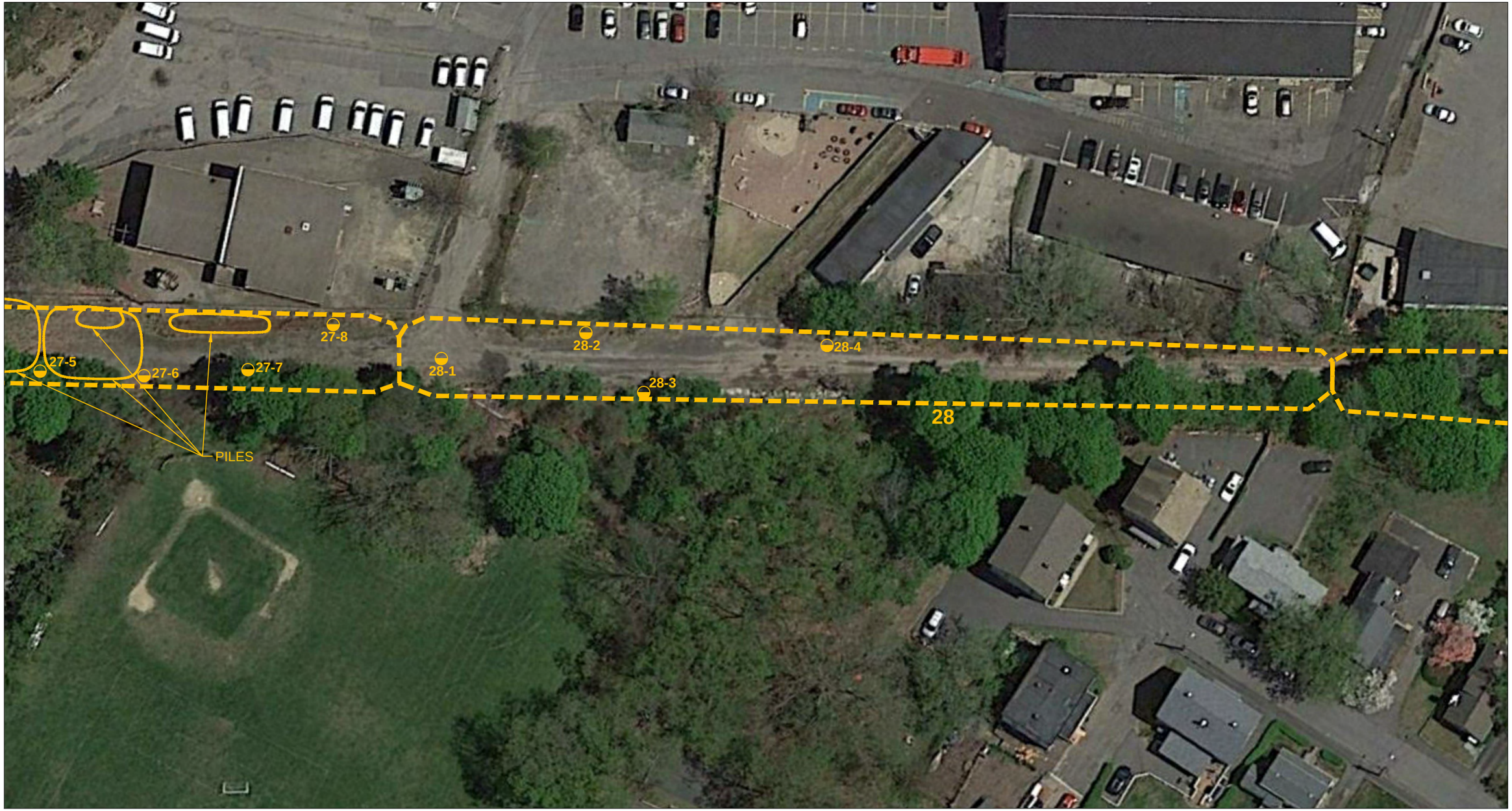
TOWN OF NATICK
NATICK, MASSACHUSETTS

Figure No.

5

Title

SOIL SAMPLING MAP
NATICK MASSACHUSETTS



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28-1 SOIL SAMPLING LOCATION

28 COMPOSITE SOIL SAMPLING LOCATION

Client/Project

TOWN OF NATICK
NATICK, MASSACHUSETTS

Figure No.

6

Title

SOIL SAMPLING MAP
NATICK MASSACHUSETTS

Table 1 (page 1 of 2)
Summary of EPH, PAHs, Lead, Arsenic, and PCBs
Natick Cochituate Rail Trail: By Section
Natick, Massachusetts

Composite Sample ID:	*RCS-1*	**13-1**	**14-1**	**14-2**	**14-3**	**25-1**	**25-2**	**26-1**	**26-2**	**26-3**	**26-4**	**26-5**	**26-6**	**27-1**
Sample Depth (inches):		(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)
Sample Date:		9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016
Extractable Petroleum Hydrocarbons (mg/kg dry)														
C9-C18 Aliphatic Hydrocarbons	*1000*	< 10.1	< 10.1	< 10.5	< 10.5	< 10.4	< 10.3	< 10.3	< 10.5	< 10.2	< 9.96	< 10.2	< 10.0	< 10.5
C19-C36 Aliphatic Hydrocarbons	*3000*	< 10.1	< 10.1	< 10.5	< 10.5	**37**	< 10.3	**32.4**	< 10.5	**99.3**	**31.2**	< 10.2	< 10.0	< 10.5
C11-C22 Aromatic Hydrocarbons	*1000*	< 10.1	**25**	**15.7**	**36.8**	**23.7**	**25.3**	**242**	**31.7**	**67**	**45.8**	**13.9**	< 10.0	< 10.5
Polycyclic Aromatic Hydrocarbons (mg/kg)														
Naphthalene	*4*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	< 0.341	< 0.350	< 0.341	< 0.332	< 0.340	< 0.333	< 0.350
2-Methylnaphthalene	*0.7*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	< 0.341	< 0.350	< 0.341	< 0.332	< 0.340	< 0.333	< 0.350
Acenaphthylene	*1*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	**1.74**	< 0.350	**0.404**	< 0.332	< 0.340	< 0.333	< 0.350
Acenaphthene	*4*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	< 0.341	< 0.350	< 0.341	< 0.332	< 0.340	< 0.333	< 0.350
Fluorene	*1000*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	< 0.341	< 0.350	< 0.341	< 0.332	< 0.340	< 0.333	< 0.350
Phenanthrene	*10*	< 0.336	< 0.337	**0.591**	**0.455**	< 0.347	< 0.344	**1.44**	< 0.350	**1.02**	**0.526**	< 0.340	< 0.333	< 0.350
Anthracene	*1000*	< 0.336	< 0.337	< 0.349	< 0.349	< 0.347	< 0.344	**0.658**	< 0.350	< 0.341	< 0.332	< 0.340	< 0.333	< 0.350
Fluoranthene	*1000*	**0.444**	**3.76**	**1.08**	**5.04**	**1.44**	**0.79**	**17.9**	**0.651**	**3.13**	**3.86**	< 0.340	< 0.333	< 0.350
Pyrene	*1000*	**0.367**	**3.78**	**0.882**	**5.36**	**1.41**	**0.735**	**13.9**	**0.532**	**2.65**	**3.47**	< 0.340	< 0.333	< 0.350
Benzo (a) anthracene	*7*	< 0.336	**1.7**	**0.439**	**2.51**	**0.708**	**0.458**	**10.5**	< 0.350	**1.52**	**1.98**	< 0.340	< 0.333	< 0.350
Chrysene	*70*	< 0.336	**1.59**	**0.493**	**3.05**	**0.906**	**0.779**	**8.32**	< 0.350	**1.96**	**2.35**	< 0.340	< 0.333	< 0.350
Benzo (b) fluoranthene	*7*	< 0.336	**1.34**	**0.402**	**3.61**	**0.647**	**1.04**	**11.6**	< 0.350	**2.54**	**3.19**	< 0.340	< 0.333	< 0.350
Benzo (k) fluoranthene	*70*	< 0.336	**1.58**	**0.432**	**2.89**	**0.989**	**0.592**	**8.55**	< 0.350	**2.08**	**2.58**	< 0.340	< 0.333	< 0.350
Benzo (a) pyrene	*2*	< 0.336	**1.31**	**0.415**	**1.92**	**0.709**	**0.344**	**8.38**	< 0.350	**1.27**	**1.79**	< 0.340	< 0.333	< 0.350
Indeno (1,2,3-cd) pyrene	*7*	< 0.336	**0.701**	< 0.349	**1.07**	**0.541**	< 0.344	**4.84**	< 0.350	**1.26**	**1.11**	< 0.340	< 0.333	< 0.350
Dibenzo (a,h) anthracene	*0.7*	< 0.336	< 0.337	< 0.349	**0.379**	< 0.347	< 0.344	**1.91**	< 0.350	**0.552**	**0.364**	< 0.340	< 0.333	< 0.350
Benzo (g,h,i) perylene	*1000*	< 0.336	**0.539**	< 0.349	**0.873**	**0.53**	< 0.344	**4.22**	< 0.350	**0.978**	**1.04**	< 0.340	< 0.333	< 0.350
Metals (mg/kg dry)														
Arsenic	*20*	**4.02**	**17.2**	**6.48**	**6.97**	**53.8**	**26.7**	**32.4**	**3.59**	**23.5**	**13.1**	**9.89**	**7.92**	**4.85**
Lead	*200*	**26.8**	**24.9**	**39.4**	**48.9**	**75**	**51.5**	**106**	**41.3**	**110**	**149**	**20.9**	**6.67**	**36.6**
PCBs (ug/kg)														
All Aroclors	*1000*	< 20.0	< 20.1	< 20.7	< 20.9	< 20.8	< 20.4	< 20.4	**41.9**	**32.6**	< 20.4	< 20.4	< 20.1	< 20.8

NOTES:
RCS-1 indicates Massachusetts Contingency Plan 310 CMR 40.00 Reportable Concentrations
BLUE indicates detection is below RCS-1 Reportable Concentration
RED indicates detection is above RCS-1 Reportable Concentration
<0.345 indicates analyte was not detected above the laboratory detection limit
Discreet soil samples
NS indicates sample not analyzed

Table 1 (page 2 of 2)
Summary of EPH, PAHs, Lead, Arsenic, and PCBs
Natick Cochituate Rail Trail: By Section
Natick, Massachusetts

Composite Sample ID:	RCS-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8	27-9	28-1	28-2	28-3	28-4
Sample Depth (inches):		(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)	(0-6)
Sample Date:		9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016	9/13/2016
Extractable Petroleum Hydrocarbons (mg/kg dry)													
C9-C18 Aliphatic Hydrocarbons	*1000*	< 10.7	< 10.7	< 10.7	< 10.4	< 10.4	< 108	< 10.7	< 10.7	< 10.2	< 10.2	< 9.97	< 10.2
C19-C36 Aliphatic Hydrocarbons	*3000*	< 10.7	**11.6**	**74.1**	< 10.4	< 10.4	**119**	**14.9**	**111**	**53.8**	**27.7**	< 9.97	**51.7**
C11-C22 Aromatic Hydrocarbons	*1000*	< 10.7	< 10.7	**320**	**57.1**	**76.6**	**241**	**277**	**81.2**	**121**	**170**	**76.8**	**62.4**
Polycyclic Aromatic Hydrocarbons (mg/kg)													
Naphthalene	*4*	< 0.357	< 0.355	**0.391**	< 0.346	< 0.347	< 3.61	< 0.355	< 0.357	< 0.341	< 0.340	< 0.332	< 0.341
2-Methylnaphthalene	*0.7*	< 0.357	< 0.355	< 0.358	< 0.346	< 0.347	< 3.61	< 0.355	< 0.357	< 0.341	< 0.340	< 0.332	< 0.341
Acenaphthylene	*1*	< 0.357	< 0.355	**1.33**	< 0.346	**0.465**	< 3.61	< 0.355	< 0.357	**0.708**	**1.04**	**0.388**	< 0.341
Acenaphthene	*4*	< 0.357	< 0.355	< 0.358	< 0.346	< 0.347	< 3.61	**0.683**	< 0.357	< 0.341	< 0.340	< 0.332	< 0.341
Fluorene	*1000*	< 0.357	< 0.355	< 0.358	< 0.346	< 0.347	< 3.61	**0.54**	< 0.357	< 0.341	< 0.340	< 0.332	< 0.341
Phenanthrene	*10*	< 0.357	**0.364**	**2.29**	**0.484**	**0.592**	< 3.61	**10.5**	**1.58**	**0.646**	**1.22**	**0.473**	**0.721**
Anthracene	*1000*	< 0.357	< 0.355	**0.67**	< 0.346	< 0.347	< 3.61	**1.53**	**0.4**	**0.588**	**0.473**	< 0.332	< 0.341
Fluoranthene	*1000*	**0.406**	**0.635**	**12.2**	**2.48**	**4.96**	**30**	**17.4**	**3.48**	**5.63**	**10.6**	**5.22**	**1.43**
Pyrene	*1000*	**0.369**	**0.645**	**11.1**	**2.21**	**4.96**	**30.3**	**14.9**	**2.14**	**5.74**	**9.99**	**4.35**	**1.1**
Benzo (a) anthracene	*7*	< 0.357	< 0.355	**6.27**	**1.14**	**2.78**	**19.8**	**7.71**	**1.77**	**3.56**	**6.15**	**2.65**	**0.604**
Chrysene	*70*	< 0.357	< 0.355	**7.71**	**1.33**	**2.86**	**18.1**	**8**	**1.91**	**3.77**	**5.81**	**2.64**	**0.985**
Benzo (b) fluoranthene	*7*	< 0.357	< 0.355	**7.07**	**1.34**	**3.77**	**17.5**	**6.78**	**2.62**	**6.05**	**8.14**	**2.06**	**0.702**
Benzo (k) fluoranthene	*70*	< 0.357	< 0.355	**7.84**	**1.17**	**2.81**	**17.9**	**6.31**	**1.9**	**3.83**	**4.97**	**2.37**	**0.682**
Benzo (a) pyrene	*2*	< 0.357	< 0.355	**5.73**	**0.891**	**2.57**	**18.3**	**7.19**	**2.27**	**3.91**	**5.35**	**2.11**	**0.556**
Indeno (1,2,3-cd) pyrene	*7*	< 0.357	< 0.355	**4.28**	**0.586**	**1.71**	**10.7**	**4.02**	**1.71**	**2.96**	**3.5**	**1.31**	**0.456**
Dibenzo (a,h) anthracene	*0.7*	< 0.357	< 0.355	**1.58**	< 0.346	**0.635**	**3.73**	**1.44**	**0.575**	**0.99**	**1.22**	**0.486**	< 0.341
Benzo (g,h,i) perylene	*1000*	< 0.357	< 0.355	**3.81**	**0.536**	**1.59**	**9.59**	**3.86**	**1.77**	**2.79**	**3.31**	**1.16**	**0.448**
Metals (mg/kg dry)													
Arsenic	*20*	**5.61**	**4.56**	**111**	**42.5**	**41.1**	**55.4**	**16.3**	**5.61**	**39.7**	**102**	**26.7**	**11.8**
Lead	*200*	**46.9**	**38.1**	**124**	**152**	**614**	**110**	**912**	**101**	**98.7**	**407**	**78.7**	**1230**
PCBs (ug/kg)													
All Aroclors	*1000*	< 21.5	< 21.5	**28.7**	< 20.9	< 20.7	**23.8**	**29.3**	< 21.2	**65.7**	**110**	< 20.3	< 20.4

NOTES:
RCS-1 indicates Massachusetts Contingency Plan 310 CMR 40.00 Reportable Concentrations
BLUE indicates detection is below RCS-1 Reportable Concentration
RED indicates detection is above RCS-1 Reportable Concentration
<0.345 indicates analyte was not detected above the laboratory detection limit
Discreet soil samples
NS indicates sample not analyzed

APPENDIX A

Laboratory Analytical Data

eurofins | Spectrum Analytical

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Report Date:
23-Sep-16 15:32

Laboratory Report

Stantec Consulting Services
400 Crown Colony Drive, Suite 200
Quincy, MA 02169
Attn: Charles Young

Project: Natick Rail Trail - Natick, MA
Project #: 191750214

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC25871-01	13-1	Soil	13-Sep-16 16:40	14-Sep-16 16:00
SC25871-02	14-1	Soil	13-Sep-16 16:45	14-Sep-16 16:00
SC25871-03	14-2	Soil	13-Sep-16 16:50	14-Sep-16 16:00
SC25871-04	14-3	Soil	13-Sep-16 17:00	14-Sep-16 16:00
SC25871-05	25-1	Soil	13-Sep-16 14:30	14-Sep-16 16:00
SC25871-06	25-2	Soil	13-Sep-16 14:35	14-Sep-16 16:00
SC25871-07	26-1	Soil	13-Sep-16 14:40	14-Sep-16 16:00
SC25871-08	26-2	Soil	13-Sep-16 14:45	14-Sep-16 16:00
SC25871-09	26-3	Soil	13-Sep-16 14:50	14-Sep-16 16:00
SC25871-10	26-4	Soil	13-Sep-16 14:55	14-Sep-16 16:00
SC25871-11	26-5	Soil	13-Sep-16 15:00	14-Sep-16 16:00
SC25871-12	26-6	Soil	13-Sep-16 15:10	14-Sep-16 16:00
SC25871-13	27-1	Soil	13-Sep-16 15:15	14-Sep-16 16:00
SC25871-14	27-2	Soil	13-Sep-16 15:20	14-Sep-16 16:00
SC25871-15	27-3	Soil	13-Sep-16 15:25	14-Sep-16 16:00
SC25871-16	27-4	Soil	13-Sep-16 15:30	14-Sep-16 16:00
SC25871-17	27-5	Soil	13-Sep-16 15:35	14-Sep-16 16:00
SC25871-18	27-6	Soil	13-Sep-16 15:40	14-Sep-16 16:00
SC25871-19	27-7	Soil	13-Sep-16 15:45	14-Sep-16 16:00
SC25871-20	27-8	Soil	13-Sep-16 15:50	14-Sep-16 16:00
SC25871-21	27-9	Soil	13-Sep-16 16:15	14-Sep-16 16:00
SC25871-22	28-1	Soil	13-Sep-16 15:55	14-Sep-16 16:00
SC25871-23	28-2	Soil	13-Sep-16 16:00	14-Sep-16 16:00
SC25871-24	28-3	Soil	13-Sep-16 16:05	14-Sep-16 16:00
SC25871-25	28-4	Soil	13-Sep-16 16:10	14-Sep-16 16:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 86 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrices	Soil			
Containers	✓ Satisfactory			
Aqueous Preservative	✓ N/A	pH≤2	pH>2	pH adjusted to <2 in lab
Temperature	Received on ice	Received at 4 ± 2 ºC	✓ Other: 1.9ºC	

Were all QA/QC procedures followed as required by the EPH method? *Yes*
Were any significant modifications made to the EPH method as specified in Section 11.3? *No*
Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*

I attest 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.

Authorized by:

June O'Connor
Laboratory Director

MassDEP Analytical Protocol Certification Form

Laboratory Name: Eurofins Spectrum Analytical, Inc.	**Project #:** 191750214
Project Location: Natick Rail Trail - Natick, MA	**RTN:**
This form provides certifications for the following data set:	SC25871-01 through SC25871-25
Matrices: Soil	

CAM Protocol

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	✓ MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
✓ 6010 Metals CAM III A	6020 Metals CAM III D	✓ 8082 PCB CAM V A	9012 Total Cyanide/PAC CAM VI A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B

Affirmative responses to questions A through F are required for Presumptive Certainty'status

A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	✓ Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	✓ Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	✓ Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	✓ Yes No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	✓ Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to questions A through E)?	✓ Yes No

Responses to questions G, H and I below are required for Presumptive Certainty'status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	Yes ✓ No

<u>Data User Note:</u> Data that achieve Presumptive Certainty'status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	Yes ✓ No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ✓ No

All negative responses are addressed in a case narrative on the cover page of this report.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

June O'Connor
Laboratory Director
Date: 9/23/2016

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 1.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

MADEP EPH 5/2004 R

Calibration:

1607035

Analyte quantified by quadratic equation type calibration.

2-Methylnaphthalene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
C11-C22 Aromatic Hydrocarbons
Dibenzo (a,h) anthracene
Fluorene
Indeno (1,2,3-cd) pyrene
Naphthalene
Phenanthrene
Unadjusted C11-C22 Aromatic Hydrocarbons

This affected the following samples:

S606048-ICV2

Laboratory Control Samples:

1616171 BSD

Benzo (b) fluoranthene RPD 33% (25%) is outside individual acceptance criteria.

1616222 BSD

Benzo (b) fluoranthene RPD 40% (25%) is outside individual acceptance criteria.

MADEP EPH 5/2004 R

Laboratory Control Samples:

1616222 BSD

C9-C18 Aliphatic Hydrocarbons RPD 27% (25%) is outside individual acceptance criteria.

Samples:

SC25871-16 *27-4*

The upper linear range for carbon chains is defined by peak height not concentration. Based on the maximum peak height for this fraction it is shown to be within the linear range of the detector and therefore not diluted further.

Unadjusted C11-C22 Aromatic Hydrocarbons

SC25871-19 *27-7*

Sample was fractionated at a dilution. The total hydrocarbon concentaction was over threshold capacity of the fractionation column (5mg per gram silica gel).

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

1-Chlorooctadecane
2-Fluorobiphenyl
Ortho-Terphenyl

SC25871-20 *27-8*

The upper linear range for carbon chains is defined by peak height not concentration. Based on the maximum peak height for this fraction it is shown to be within the linear range of the detector and therefore not diluted further.

Unadjusted C11-C22 Aromatic Hydrocarbons

SW846 8082A

Samples:

SC25871-07 *26-1*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SC25871-09 *26-3*

Difference between the two GC columns is greater than 40%.

Aroclor-1260

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

SC25871-16 *27-4*

Difference between the two GC columns is greater than 40%.

Aroclor-1260

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SC25871-19 *27-7*

SW846 8082A

Samples:

SC25871-19 *27-7*

Difference between the two GC columns is greater than 40%.

Aroclor-1260

Sample Acceptance Check Form

Client:	Stantec Consulting Services - Quincy, MA
Project:	Natick Rail Trail - Natick, MA / 191750214
Work Order:	SC25871
Sample(s) received on:	9/14/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC25871-01 **Client ID:** 13-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Fluoranthene	0.444		0.336	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.367		0.336	mg/kg	MADEP EPH 5/2004 R
Arsenic	4.02		1.47	mg/kg	SW846 6010C
Lead	26.8		1.47	mg/kg	SW846 6010C

Lab ID: SC25871-02 **Client ID:** 14-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	1.70		0.337	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	1.31		0.337	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	1.34		0.337	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.539		0.337	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	1.58		0.337	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	25.0		10.1	mg/kg	MADEP EPH 5/2004 R
Chrysene	1.59		0.337	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	3.76		0.337	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	0.701		0.337	mg/kg	MADEP EPH 5/2004 R
Pyrene	3.78		0.337	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	42.0		10.1	mg/kg	MADEP EPH 5/2004 R
Arsenic	17.2		1.41	mg/kg	SW846 6010C
Lead	24.9		1.41	mg/kg	SW846 6010C

Lab ID: SC25871-03 **Client ID:** 14-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	0.439		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	0.415		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	0.402		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	0.432		0.349	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	15.7		10.5	mg/kg	MADEP EPH 5/2004 R
Chrysene	0.493		0.349	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	1.08		0.349	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.591		0.349	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.882		0.349	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	21.2		10.5	mg/kg	MADEP EPH 5/2004 R
Arsenic	6.48		1.44	mg/kg	SW846 6010C
Lead	39.4		1.44	mg/kg	SW846 6010C

Lab ID: SC25871-04 **Client ID:** 14-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	2.51		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	1.92		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	3.61		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.873		0.349	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	2.89		0.349	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	36.8		10.5	mg/kg	MADEP EPH 5/2004 R
Chrysene	3.05		0.349	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.379		0.349	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	5.04		0.349	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.07		0.349	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.455		0.349	mg/kg	MADEP EPH 5/2004 R
Pyrene	5.36		0.349	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	64.3		10.5	mg/kg	MADEP EPH 5/2004 R
Arsenic	6.97		1.57	mg/kg	SW846 6010C
Lead	48.9		1.57	mg/kg	SW846 6010C

Lab ID: SC25871-05 **Client ID:** 25-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	0.708		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	0.709		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	0.647		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.530		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	0.989		0.347	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	23.7		10.4	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	37.0		10.4	mg/kg	MADEP EPH 5/2004 R
Chrysene	0.906		0.347	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	1.44		0.347	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	0.541		0.347	mg/kg	MADEP EPH 5/2004 R
Pyrene	1.41		0.347	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	32.1		10.4	mg/kg	MADEP EPH 5/2004 R
Arsenic	53.8		1.52	mg/kg	SW846 6010C
Lead	75.0		1.52	mg/kg	SW846 6010C

Lab ID: SC25871-06 **Client ID:** 25-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	0.458		0.344	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	0.344		0.344	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	1.04		0.344	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	0.592		0.344	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	25.3		10.3	mg/kg	MADEP EPH 5/2004 R
Chrysene	0.779		0.344	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	0.790		0.344	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.735		0.344	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	31.1		10.3	mg/kg	MADEP EPH 5/2004 R
Arsenic	26.7		1.43	mg/kg	SW846 6010C
Lead	51.5		1.43	mg/kg	SW846 6010C

Lab ID: SC25871-07 **Client ID:** 26-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	1.74		0.341	mg/kg	MADEP EPH 5/2004 R
Anthracene	0.658		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	10.5		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	8.38		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	11.6		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	4.22		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	8.55		0.341	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	242		10.3	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	32.4		10.3	mg/kg	MADEP EPH 5/2004 R
Chrysene	8.32		0.341	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	1.91		0.341	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	17.9		0.341	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	4.84		0.341	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	1.44		0.341	mg/kg	MADEP EPH 5/2004 R
Pyrene	13.9		0.341	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	337		10.3	mg/kg	MADEP EPH 5/2004 R
Arsenic	32.4		1.47	mg/kg	SW846 6010C
Lead	106		1.47	mg/kg	SW846 6010C

Lab ID: SC25871-08 **Client ID:** 26-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
C11-C22 Aromatic Hydrocarbons	31.7		10.5	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	0.651		0.350	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.532		0.350	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	35.2		10.5	mg/kg	MADEP EPH 5/2004 R
Arsenic	3.59		1.59	mg/kg	SW846 6010C
Lead	41.3		1.59	mg/kg	SW846 6010C
Aroclor-1260 [2C]	41.9		21.0	µg/kg	SW846 8082A

Lab ID: SC25871-09 **Client ID:** 26-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	0.404		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	1.52		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	1.27		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	2.54		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.978		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	2.08		0.341	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	67.0		10.2	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	99.3		10.2	mg/kg	MADEP EPH 5/2004 R
Chrysene	1.96		0.341	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.552		0.341	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	3.13		0.341	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.26		0.341	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	1.02		0.341	mg/kg	MADEP EPH 5/2004 R
Pyrene	2.65		0.341	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	87.2		10.2	mg/kg	MADEP EPH 5/2004 R
Arsenic	23.5		1.43	mg/kg	SW846 6010C
Lead	110		1.43	mg/kg	SW846 6010C
Aroclor-1260	32.6	P	20.4	µg/kg	SW846 8082A

Lab ID: SC25871-10 **Client ID:** 26-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	1.98		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	1.79		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	3.19		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	1.04		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	2.58		0.332	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	45.8		9.96	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	31.2		9.96	mg/kg	MADEP EPH 5/2004 R
Chrysene	2.35		0.332	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.364		0.332	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	3.86		0.332	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.11		0.332	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.526		0.332	mg/kg	MADEP EPH 5/2004 R
Pyrene	3.47		0.332	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	68.5		9.96	mg/kg	MADEP EPH 5/2004 R
Arsenic	13.1		1.55	mg/kg	SW846 6010C
Lead	149		1.55	mg/kg	SW846 6010C

Lab ID: SC25871-11 **Client ID:** 26-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
C11-C22 Aromatic Hydrocarbons	13.9		10.2	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	15.2		10.2	mg/kg	MADEP EPH 5/2004 R
Arsenic	9.89		1.42	mg/kg	SW846 6010C
Lead	20.9		1.42	mg/kg	SW846 6010C

Lab ID: SC25871-12 **Client ID:** 26-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	7.92		1.44	mg/kg	SW846 6010C
Lead	6.67		1.44	mg/kg	SW846 6010C

Lab ID: SC25871-13 **Client ID:** 27-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.85		1.55	mg/kg	SW846 6010C
Lead	36.6		1.55	mg/kg	SW846 6010C

Lab ID: SC25871-14 **Client ID:** 27-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Fluoranthene	0.406		0.357	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.369		0.357	mg/kg	MADEP EPH 5/2004 R
Arsenic	5.61		1.55	mg/kg	SW846 6010C
Lead	46.9		1.55	mg/kg	SW846 6010C

Lab ID: SC25871-15 **Client ID:** 27-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
C19-C36 Aliphatic Hydrocarbons	11.6		10.7	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	0.635		0.355	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.364		0.355	mg/kg	MADEP EPH 5/2004 R
Pyrene	0.645		0.355	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	12.7		10.7	mg/kg	MADEP EPH 5/2004 R
Arsenic	4.56		1.59	mg/kg	SW846 6010C
Lead	38.1		1.59	mg/kg	SW846 6010C

Lab ID: SC25871-16 **Client ID:** 27-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	1.33		0.358	mg/kg	MADEP EPH 5/2004 R
Anthracene	0.670		0.358	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	6.27		0.358	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	5.73		0.358	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	7.07		0.358	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	3.81		0.358	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	7.84		0.358	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	320		10.7	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	74.1		10.7	mg/kg	MADEP EPH 5/2004 R
Chrysene	7.71		0.358	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	1.58		0.358	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	12.2		0.358	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	4.28		0.358	mg/kg	MADEP EPH 5/2004 R
Naphthalene	0.391		0.358	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	2.29		0.358	mg/kg	MADEP EPH 5/2004 R
Pyrene	11.1		0.358	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	393	CCE	10.7	mg/kg	MADEP EPH 5/2004 R
Arsenic	111		1.62	mg/kg	SW846 6010C
Lead	124		1.62	mg/kg	SW846 6010C
Aroclor-1260	28.7	P	21.5	µg/kg	SW846 8082A

Lab ID: SC25871-17 **Client ID:** 27-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	1.14		0.346	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	0.891		0.346	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	1.34		0.346	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.536		0.346	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	1.17		0.346	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	57.1		10.4	mg/kg	MADEP EPH 5/2004 R
Chrysene	1.33		0.346	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	2.48		0.346	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	0.586		0.346	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.484		0.346	mg/kg	MADEP EPH 5/2004 R
Pyrene	2.21		0.346	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	70.0		10.4	mg/kg	MADEP EPH 5/2004 R
Arsenic	42.5		1.52	mg/kg	SW846 6010C
Lead	152		1.52	mg/kg	SW846 6010C

Lab ID: SC25871-18 **Client ID:** 27-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	0.465		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	2.78		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	2.57		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	3.77		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	1.59		0.347	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	2.81		0.347	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	76.6		10.4	mg/kg	MADEP EPH 5/2004 R
Chrysene	2.86		0.347	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.635		0.347	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	4.96		0.347	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.71		0.347	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.592		0.347	mg/kg	MADEP EPH 5/2004 R
Pyrene	4.96		0.347	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	107		10.4	mg/kg	MADEP EPH 5/2004 R
Arsenic	41.1		1.54	mg/kg	SW846 6010C
Lead	614		1.54	mg/kg	SW846 6010C

Lab ID: SC25871-19 **Client ID:** 27-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	19.8	D	3.61	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	18.3	D	3.61	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	17.5	D	3.61	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	9.59	D	3.61	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	17.9	D	3.61	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	241	D	108	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	119	D	108	mg/kg	MADEP EPH 5/2004 R
Chrysene	18.1	D	3.61	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	3.73	D	3.61	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	30.0	D	3.61	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	10.7	D	3.61	mg/kg	MADEP EPH 5/2004 R
Pyrene	30.3	D	3.61	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	423	D	108	mg/kg	MADEP EPH 5/2004 R
Arsenic	55.4		1.57	mg/kg	SW846 6010C
Lead	110		1.57	mg/kg	SW846 6010C
Aroclor-1260	23.8	P	21.6	µg/kg	SW846 8082A

Lab ID: SC25871-20 **Client ID:** 27-8

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthene	0.683		0.355	mg/kg	MADEP EPH 5/2004 R
Anthracene	1.53		0.355	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	7.71		0.355	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	7.19		0.355	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	6.78		0.355	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	3.86		0.355	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	6.31		0.355	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	277		10.7	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	14.9		10.7	mg/kg	MADEP EPH 5/2004 R
Chrysene	8.00		0.355	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	1.44		0.355	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	17.4		0.355	mg/kg	MADEP EPH 5/2004 R
Fluorene	0.540		0.355	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	4.02		0.355	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	10.5		0.355	mg/kg	MADEP EPH 5/2004 R
Pyrene	14.9		0.355	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	368	CCE	10.7	mg/kg	MADEP EPH 5/2004 R
Arsenic	16.3		1.57	mg/kg	SW846 6010C
Lead	912		1.57	mg/kg	SW846 6010C
Aroclor-1260 [2C]	29.3		21.3	µg/kg	SW846 8082A

Lab ID: SC25871-21 **Client ID:** 27-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	0.400		0.357	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	1.77		0.357	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	2.27		0.357	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	2.62		0.357	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	1.77		0.357	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	1.90		0.357	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	81.2		10.7	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	111		10.7	mg/kg	MADEP EPH 5/2004 R
Chrysene	1.91		0.357	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.575		0.357	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	3.48		0.357	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.71		0.357	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	1.58		0.357	mg/kg	MADEP EPH 5/2004 R
Pyrene	2.14		0.357	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	104		10.7	mg/kg	MADEP EPH 5/2004 R
Arsenic	5.61		1.62	mg/kg	SW846 6010C
Lead	101		1.62	mg/kg	SW846 6010C

Lab ID: SC25871-22 **Client ID:** 28-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	0.708		0.341	mg/kg	MADEP EPH 5/2004 R
Anthracene	0.588		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	3.56		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	3.91		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	6.05		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	2.79		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	3.83		0.341	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	121		10.2	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	53.8		10.2	mg/kg	MADEP EPH 5/2004 R
Chrysene	3.77		0.341	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.990		0.341	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	5.63		0.341	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	2.96		0.341	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.646		0.341	mg/kg	MADEP EPH 5/2004 R
Pyrene	5.74		0.341	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	162		10.2	mg/kg	MADEP EPH 5/2004 R
Arsenic	39.7		1.52	mg/kg	SW846 6010C
Lead	98.7		1.52	mg/kg	SW846 6010C
Aroclor-1248	65.7		20.4	µg/kg	SW846 8082A

Lab ID: SC25871-23 **Client ID:** 28-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	1.04		0.340	mg/kg	MADEP EPH 5/2004 R
Anthracene	0.473		0.340	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	6.15		0.340	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	5.35		0.340	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	8.14		0.340	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	3.31		0.340	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	4.97		0.340	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	170		10.2	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	27.7		10.2	mg/kg	MADEP EPH 5/2004 R
Chrysene	5.81		0.340	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	1.22		0.340	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	10.6		0.340	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	3.50		0.340	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	1.22		0.340	mg/kg	MADEP EPH 5/2004 R
Pyrene	9.99		0.340	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	232		10.2	mg/kg	MADEP EPH 5/2004 R
Arsenic	102		1.50	mg/kg	SW846 6010C
Lead	407		1.50	mg/kg	SW846 6010C
Aroclor-1260 [2C]	110		20.6	µg/kg	SW846 8082A

Lab ID: SC25871-24 **Client ID:** 28-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	0.388		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (a) anthracene	2.65		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	2.11		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	2.06		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	1.16		0.332	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	2.37		0.332	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	76.8		9.97	mg/kg	MADEP EPH 5/2004 R
Chrysene	2.64		0.332	mg/kg	MADEP EPH 5/2004 R
Dibenzo (a,h) anthracene	0.486		0.332	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	5.22		0.332	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	1.31		0.332	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.473		0.332	mg/kg	MADEP EPH 5/2004 R
Pyrene	4.35		0.332	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	102		9.97	mg/kg	MADEP EPH 5/2004 R
Arsenic	26.7		1.46	mg/kg	SW846 6010C
Lead	78.7		1.46	mg/kg	SW846 6010C

Lab ID: SC25871-25 **Client ID:** 28-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	0.604		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (a) pyrene	0.556		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (b) fluoranthene	0.702		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (g,h,i) perylene	0.448		0.341	mg/kg	MADEP EPH 5/2004 R
Benzo (k) fluoranthene	0.682		0.341	mg/kg	MADEP EPH 5/2004 R
C11-C22 Aromatic Hydrocarbons	62.4		10.2	mg/kg	MADEP EPH 5/2004 R
C19-C36 Aliphatic Hydrocarbons	51.7		10.2	mg/kg	MADEP EPH 5/2004 R
Chrysene	0.985		0.341	mg/kg	MADEP EPH 5/2004 R
Fluoranthene	1.43		0.341	mg/kg	MADEP EPH 5/2004 R
Indeno (1,2,3-cd) pyrene	0.456		0.341	mg/kg	MADEP EPH 5/2004 R
Phenanthrene	0.721		0.341	mg/kg	MADEP EPH 5/2004 R
Pyrene	1.10		0.341	mg/kg	MADEP EPH 5/2004 R
Unadjusted C11-C22 Aromatic Hydrocarbons	70.7		10.2	mg/kg	MADEP EPH 5/2004 R
Arsenic	11.8		1.49	mg/kg	SW846 6010C
Lead	1230		1.49	mg/kg	SW846 6010C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
13-1	191750214	Soil	13-Sep-16 16:40	14-Sep-16
SC25871-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.0		µg/kg dry	20.0	11.3	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.0		µg/kg dry	20.0	14.7	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.0		µg/kg dry	20.0	14.9	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.0		µg/kg dry	20.0	12.0	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.0		µg/kg dry	20.0	12.4	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.0		µg/kg dry	20.0	9.06	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	< 20.0		µg/kg dry	20.0	8.46	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.0		µg/kg dry	20.0	15.4	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.0		µg/kg dry	20.0	11.7	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.1		mg/kg dry	10.1	1.96	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.1		mg/kg dry	10.1	1.42	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 10.1		mg/kg dry	10.1	4.81	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 10.1		mg/kg dry	10.1	4.81	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.336		mg/kg dry	0.336	0.299	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.336		mg/kg dry	0.336	0.290	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.336		mg/kg dry	0.336	0.133	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.336		mg/kg dry	0.336	0.334	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.336		mg/kg dry	0.336	0.302	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.336		mg/kg dry	0.336	0.292	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.336		mg/kg dry	0.336	0.289	1	"	"	"	"	"	
206-44-0	Fluoranthene	**0.444**		mg/kg dry	0.336	0.124	1	"	"	"	"	"	
129-00-0	Pyrene	**0.367**		mg/kg dry	0.336	0.124	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.336		mg/kg dry	0.336	0.319	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.336		mg/kg dry	0.336	0.318	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.336		mg/kg dry	0.336	0.277	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.336		mg/kg dry	0.336	0.127	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.336		mg/kg dry	0.336	0.302	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.336		mg/kg dry	0.336	0.225	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.336		mg/kg dry	0.336	0.205	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.336		mg/kg dry	0.336	0.220	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*103*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
13-1 SC25871-01	191750214	Soil	13-Sep-16 16:40	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*71*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*72*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**4.02**		mg/kg dry	1.47	0.389	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**26.8**		mg/kg dry	1.47	0.452	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.3**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-1 SC25871-02	191750214	Soil	13-Sep-16 16:45	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	11.4	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	14.8	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	14.9	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	12.4	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	9.10	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	9.07	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	15.5	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	11.7	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.1		mg/kg dry	10.1	1.96	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.1		mg/kg dry	10.1	1.43	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**25.0**		mg/kg dry	10.1	4.83	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**42.0**		mg/kg dry	10.1	4.83	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.337		mg/kg dry	0.337	0.300	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.337		mg/kg dry	0.337	0.291	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.337		mg/kg dry	0.337	0.134	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.337		mg/kg dry	0.337	0.335	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.337		mg/kg dry	0.337	0.303	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.337		mg/kg dry	0.337	0.293	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.337		mg/kg dry	0.337	0.290	1	"	"	"	"	"	
206-44-0	Fluoranthene	**3.76**		mg/kg dry	0.337	0.125	1	"	"	"	"	"	
129-00-0	Pyrene	**3.78**		mg/kg dry	0.337	0.125	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**1.70**		mg/kg dry	0.337	0.320	1	"	"	"	"	"	
218-01-9	Chrysene	**1.59**		mg/kg dry	0.337	0.319	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**1.34**		mg/kg dry	0.337	0.278	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**1.58**		mg/kg dry	0.337	0.128	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**1.31**		mg/kg dry	0.337	0.303	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**0.701**		mg/kg dry	0.337	0.226	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.337		mg/kg dry	0.337	0.206	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.539**		mg/kg dry	0.337	0.221	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*87*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-1 SC25871-02	191750214	Soil	13-Sep-16 16:45	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*58*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*52*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**17.2**		mg/kg dry	1.41	0.375	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**24.9**		mg/kg dry	1.41	0.435	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.1**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-2	191750214	Soil	13-Sep-16 16:50	14-Sep-16
SC25871-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	11.7	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	15.2	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	15.4	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.4	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	9.36	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	< 20.7		µg/kg dry	20.7	8.74	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	15.9	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	12.1	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	2.03	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	1.48	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**15.7**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**21.2**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.349		mg/kg dry	0.349	0.310	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.349		mg/kg dry	0.349	0.301	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.349		mg/kg dry	0.349	0.138	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.349		mg/kg dry	0.349	0.347	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.349		mg/kg dry	0.349	0.313	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.591**		mg/kg dry	0.349	0.303	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.349		mg/kg dry	0.349	0.300	1	"	"	"	"	"	
206-44-0	Fluoranthene	**1.08**		mg/kg dry	0.349	0.129	1	"	"	"	"	"	
129-00-0	Pyrene	**0.882**		mg/kg dry	0.349	0.129	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**0.439**		mg/kg dry	0.349	0.331	1	"	"	"	"	"	
218-01-9	Chrysene	**0.493**		mg/kg dry	0.349	0.330	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**0.402**		mg/kg dry	0.349	0.288	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**0.432**		mg/kg dry	0.349	0.132	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**0.415**		mg/kg dry	0.349	0.313	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.349		mg/kg dry	0.349	0.234	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.349		mg/kg dry	0.349	0.213	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.349		mg/kg dry	0.349	0.228	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*85*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-2 SC25871-03	191750214	Soil	13-Sep-16 16:50	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*71*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*77*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**6.48**		mg/kg dry	1.44	0.383	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**39.4**		mg/kg dry	1.44	0.445	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.4**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-3 SC25871-04	191750214	Soil	13-Sep-16 17:00	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	11.8	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	15.4	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	15.5	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.5	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	12.9	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	9.44	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	9.41	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	16.0	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	12.2	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	2.03	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	1.48	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**36.8**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**64.3**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.349		mg/kg dry	0.349	0.311	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.349		mg/kg dry	0.349	0.301	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.349		mg/kg dry	0.349	0.138	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.349		mg/kg dry	0.349	0.347	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.349		mg/kg dry	0.349	0.314	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.455**		mg/kg dry	0.349	0.303	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.349		mg/kg dry	0.349	0.300	1	"	"	"	"	"	
206-44-0	Fluoranthene	**5.04**		mg/kg dry	0.349	0.129	1	"	"	"	"	"	
129-00-0	Pyrene	**5.36**		mg/kg dry	0.349	0.129	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**2.51**		mg/kg dry	0.349	0.331	1	"	"	"	"	"	
218-01-9	Chrysene	**3.05**		mg/kg dry	0.349	0.330	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**3.61**		mg/kg dry	0.349	0.288	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**2.89**		mg/kg dry	0.349	0.132	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**1.92**		mg/kg dry	0.349	0.314	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.07**		mg/kg dry	0.349	0.234	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.379**		mg/kg dry	0.349	0.213	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.873**		mg/kg dry	0.349	0.229	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*75*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14-3 SC25871-04	191750214	Soil	13-Sep-16 17:00	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*58*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*64*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**6.97**		mg/kg dry	1.57	0.415	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**48.9**		mg/kg dry	1.57	0.482	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.0**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
25-1	191750214	Soil	13-Sep-16 14:30	14-Sep-16
SC25871-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	11.8	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	15.3	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	15.4	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	12.8	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	9.40	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	9.38	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	16.0	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	12.1	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.4		mg/kg dry	10.4	2.02	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**37.0**		mg/kg dry	10.4	1.47	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**23.7**		mg/kg dry	10.4	4.96	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**32.1**		mg/kg dry	10.4	4.96	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.347		mg/kg dry	0.347	0.308	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.347		mg/kg dry	0.347	0.299	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.347		mg/kg dry	0.347	0.137	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.347		mg/kg dry	0.347	0.345	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.347		mg/kg dry	0.347	0.311	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.347		mg/kg dry	0.347	0.301	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.347		mg/kg dry	0.347	0.298	1	"	"	"	"	"	
206-44-0	Fluoranthene	**1.44**		mg/kg dry	0.347	0.128	1	"	"	"	"	"	
129-00-0	Pyrene	**1.41**		mg/kg dry	0.347	0.128	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**0.708**		mg/kg dry	0.347	0.329	1	"	"	"	"	"	
218-01-9	Chrysene	**0.906**		mg/kg dry	0.347	0.328	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**0.647**		mg/kg dry	0.347	0.286	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**0.989**		mg/kg dry	0.347	0.131	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**0.709**		mg/kg dry	0.347	0.311	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**0.541**		mg/kg dry	0.347	0.232	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.347		mg/kg dry	0.347	0.211	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.530**		mg/kg dry	0.347	0.227	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*84*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
25-1 SC25871-05	191750214	Soil	13-Sep-16 14:30	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*51*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*49*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**53.8**		mg/kg dry	1.52	0.403	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**75.0**		mg/kg dry	1.52	0.467	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.4**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
25-2 SC25871-06	191750214	Soil	13-Sep-16 14:35	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.6	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.2	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.25	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.22	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.7	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.3		mg/kg dry	10.3	2.00	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.3		mg/kg dry	10.3	1.46	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**25.3**		mg/kg dry	10.3	4.92	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**31.1**		mg/kg dry	10.3	4.92	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.344		mg/kg dry	0.344	0.306	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.344		mg/kg dry	0.344	0.296	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.344		mg/kg dry	0.344	0.136	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.344		mg/kg dry	0.344	0.342	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.344		mg/kg dry	0.344	0.309	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.344		mg/kg dry	0.344	0.298	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.344		mg/kg dry	0.344	0.295	1	"	"	"	"	"	
206-44-0	Fluoranthene	**0.790**		mg/kg dry	0.344	0.127	1	"	"	"	"	"	
129-00-0	Pyrene	**0.735**		mg/kg dry	0.344	0.127	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**0.458**		mg/kg dry	0.344	0.326	1	"	"	"	"	"	
218-01-9	Chrysene	**0.779**		mg/kg dry	0.344	0.325	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**1.04**		mg/kg dry	0.344	0.284	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**0.592**		mg/kg dry	0.344	0.130	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**0.344**		mg/kg dry	0.344	0.309	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.344		mg/kg dry	0.344	0.230	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.344		mg/kg dry	0.344	0.210	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.344		mg/kg dry	0.344	0.225	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
25-2 SC25871-06	191750214	Soil	13-Sep-16 14:35	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*70*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*68*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**26.7**		mg/kg dry	1.43	0.380	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**51.5**		mg/kg dry	1.43	0.441	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.3**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-1 SC25871-07	191750214	Soil	13-Sep-16 14:40	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.5	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.1	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.2	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.22	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.19	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.6	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*710*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.3		mg/kg dry	10.3	1.99	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**32.4**		mg/kg dry	10.3	1.45	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**242**		mg/kg dry	10.3	4.89	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**337**		mg/kg dry	10.3	4.89	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.341		mg/kg dry	0.341	0.304	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.341		mg/kg dry	0.341	0.294	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**1.74**		mg/kg dry	0.341	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.341		mg/kg dry	0.341	0.339	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.341		mg/kg dry	0.341	0.307	1	"	"	"	"	"	
85-01-8	Phenanthrene	**1.44**		mg/kg dry	0.341	0.296	1	"	"	"	"	"	
120-12-7	Anthracene	**0.658**		mg/kg dry	0.341	0.293	1	"	"	"	"	"	
206-44-0	Fluoranthene	**17.9**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	**13.9**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**10.5**		mg/kg dry	0.341	0.324	1	"	"	"	"	"	
218-01-9	Chrysene	**8.32**		mg/kg dry	0.341	0.323	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**11.6**		mg/kg dry	0.341	0.282	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**8.55**		mg/kg dry	0.341	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**8.38**		mg/kg dry	0.341	0.307	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**4.84**		mg/kg dry	0.341	0.229	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**1.91**		mg/kg dry	0.341	0.208	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**4.22**		mg/kg dry	0.341	0.224	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*57*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-1 SC25871-07	191750214	Soil	13-Sep-16 14:40	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*56*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*64*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**32.4**		mg/kg dry	1.47	0.391	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**106**		mg/kg dry	1.47	0.454	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.8**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-2 SC25871-08	191750214	Soil	13-Sep-16 14:45	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	11.8	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	15.4	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	15.6	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.0		µg/kg dry	21.0	12.9	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	9.48	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	**41.9**		µg/kg dry	21.0	8.86	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	16.1	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	12.2	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	2.04	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	1.48	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**31.7**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**35.2**		mg/kg dry	10.5	5.00	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.350		mg/kg dry	0.350	0.311	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.350		mg/kg dry	0.350	0.301	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.350		mg/kg dry	0.350	0.139	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.350		mg/kg dry	0.350	0.348	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.350		mg/kg dry	0.350	0.314	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.350		mg/kg dry	0.350	0.303	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.350		mg/kg dry	0.350	0.300	1	"	"	"	"	"	
206-44-0	Fluoranthene	**0.651**		mg/kg dry	0.350	0.129	1	"	"	"	"	"	
129-00-0	Pyrene	**0.532**		mg/kg dry	0.350	0.129	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.350		mg/kg dry	0.350	0.332	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.350		mg/kg dry	0.350	0.331	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.350		mg/kg dry	0.350	0.289	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.350		mg/kg dry	0.350	0.132	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.350		mg/kg dry	0.350	0.314	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.350		mg/kg dry	0.350	0.234	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.350		mg/kg dry	0.350	0.213	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.350		mg/kg dry	0.350	0.229	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*81*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-2 SC25871-08	191750214	Soil	13-Sep-16 14:45	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*77*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*71*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**3.59**		mg/kg dry	1.59	0.421	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**41.3**		mg/kg dry	1.59	0.488	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.3**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-3 SC25871-09	191750214	Soil	13-Sep-16 14:50	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.5	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.1	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.2	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.22	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	**32.6**	P	µg/kg dry	20.4	9.20	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.7	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*295*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.99	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**99.3**		mg/kg dry	10.2	1.45	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**67.0**		mg/kg dry	10.2	4.88	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**87.2**		mg/kg dry	10.2	4.88	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.341		mg/kg dry	0.341	0.303	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.341		mg/kg dry	0.341	0.294	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**0.404**		mg/kg dry	0.341	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.341		mg/kg dry	0.341	0.339	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.341		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
85-01-8	Phenanthrene	**1.02**		mg/kg dry	0.341	0.296	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.341		mg/kg dry	0.341	0.293	1	"	"	"	"	"	
206-44-0	Fluoranthene	**3.13**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	**2.65**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**1.52**		mg/kg dry	0.341	0.324	1	"	"	"	"	"	
218-01-9	Chrysene	**1.96**		mg/kg dry	0.341	0.323	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**2.54**		mg/kg dry	0.341	0.282	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**2.08**		mg/kg dry	0.341	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**1.27**		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.26**		mg/kg dry	0.341	0.228	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.552**		mg/kg dry	0.341	0.208	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.978**		mg/kg dry	0.341	0.223	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-3 SC25871-09	191750214	Soil	13-Sep-16 14:50	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*61*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*64*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**23.5**		mg/kg dry	1.43	0.379	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**110**		mg/kg dry	1.43	0.440	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.8**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-4 SC25871-10	191750214	Soil	13-Sep-16 14:55	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.6	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.2	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.24	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.22	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.7	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 9.96		mg/kg dry	9.96	1.93	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**31.2**		mg/kg dry	9.96	1.41	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**45.8**		mg/kg dry	9.96	4.75	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**68.5**		mg/kg dry	9.96	4.75	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.332		mg/kg dry	0.332	0.295	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.332		mg/kg dry	0.332	0.286	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.332		mg/kg dry	0.332	0.131	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.332		mg/kg dry	0.332	0.330	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.332		mg/kg dry	0.332	0.298	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.526**		mg/kg dry	0.332	0.288	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.332		mg/kg dry	0.332	0.285	1	"	"	"	"	"	
206-44-0	Fluoranthene	**3.86**		mg/kg dry	0.332	0.122	1	"	"	"	"	"	
129-00-0	Pyrene	**3.47**		mg/kg dry	0.332	0.122	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**1.98**		mg/kg dry	0.332	0.315	1	"	"	"	"	"	
218-01-9	Chrysene	**2.35**		mg/kg dry	0.332	0.314	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**3.19**		mg/kg dry	0.332	0.274	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**2.58**		mg/kg dry	0.332	0.125	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**1.79**		mg/kg dry	0.332	0.298	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.11**		mg/kg dry	0.332	0.222	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.364**		mg/kg dry	0.332	0.202	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**1.04**		mg/kg dry	0.332	0.217	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*103*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-4 SC25871-10	191750214	Soil	13-Sep-16 14:55	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*89*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*75*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**13.1**		mg/kg dry	1.55	0.411	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**149**		mg/kg dry	1.55	0.477	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.9**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-5 SC25871-11	191750214	Soil	13-Sep-16 15:00	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.5	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.1	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.2	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.22	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.20	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.7	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.98	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.44	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**13.9**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**15.2**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.340		mg/kg dry	0.340	0.303	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.340		mg/kg dry	0.340	0.293	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.340		mg/kg dry	0.340	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.340		mg/kg dry	0.340	0.338	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.340		mg/kg dry	0.340	0.306	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.340		mg/kg dry	0.340	0.295	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.340		mg/kg dry	0.340	0.292	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.340		mg/kg dry	0.340	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.340		mg/kg dry	0.340	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.340		mg/kg dry	0.340	0.323	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.340		mg/kg dry	0.340	0.322	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.340		mg/kg dry	0.340	0.281	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.340		mg/kg dry	0.340	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.340		mg/kg dry	0.340	0.306	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.340		mg/kg dry	0.340	0.228	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.340		mg/kg dry	0.340	0.208	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.340		mg/kg dry	0.340	0.223	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*90*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-5 SC25871-11	191750214	Soil	13-Sep-16 15:00	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*48*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*44*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**9.89**		mg/kg dry	1.42	0.377	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**20.9**		mg/kg dry	1.42	0.437	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.0**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-6	191750214	Soil	13-Sep-16 15:10	14-Sep-16
SC25871-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	11.4	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	14.8	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	14.9	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	12.4	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	9.09	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	9.06	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	15.4	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	11.7	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.0		mg/kg dry	10.0	1.94	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.0		mg/kg dry	10.0	1.41	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 10.0		mg/kg dry	10.0	4.76	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 10.0		mg/kg dry	10.0	4.76	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.333		mg/kg dry	0.333	0.296	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.333		mg/kg dry	0.333	0.287	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.333		mg/kg dry	0.333	0.132	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.333		mg/kg dry	0.333	0.331	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.333		mg/kg dry	0.333	0.299	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.333		mg/kg dry	0.333	0.289	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.333		mg/kg dry	0.333	0.286	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.333		mg/kg dry	0.333	0.123	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.333		mg/kg dry	0.333	0.123	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.333		mg/kg dry	0.333	0.316	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.333		mg/kg dry	0.333	0.315	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.333		mg/kg dry	0.333	0.275	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.333		mg/kg dry	0.333	0.126	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.333		mg/kg dry	0.333	0.299	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.333		mg/kg dry	0.333	0.223	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.333		mg/kg dry	0.333	0.203	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.333		mg/kg dry	0.333	0.218	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*71*			*40-140 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
26-6 SC25871-12	191750214	Soil	13-Sep-16 15:10	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*60*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*54*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**7.92**		mg/kg dry	1.44	0.382	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**6.67**		mg/kg dry	1.44	0.444	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.7**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-1	191750214	Soil	13-Sep-16 15:15	14-Sep-16
SC25871-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	11.8	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	15.3	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	15.5	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	9.42	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	9.40	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	16.0	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	12.2	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	2.04	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.5		mg/kg dry	10.5	1.48	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 10.5		mg/kg dry	10.5	5.01	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 10.5		mg/kg dry	10.5	5.01	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.350		mg/kg dry	0.350	0.311	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.350		mg/kg dry	0.350	0.302	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.350		mg/kg dry	0.350	0.139	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.350		mg/kg dry	0.350	0.348	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.350		mg/kg dry	0.350	0.314	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.350		mg/kg dry	0.350	0.304	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.350		mg/kg dry	0.350	0.300	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.350		mg/kg dry	0.350	0.129	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.350		mg/kg dry	0.350	0.129	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.350		mg/kg dry	0.350	0.332	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.350		mg/kg dry	0.350	0.331	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.350		mg/kg dry	0.350	0.289	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.350		mg/kg dry	0.350	0.132	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.350		mg/kg dry	0.350	0.314	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.350		mg/kg dry	0.350	0.234	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.350		mg/kg dry	0.350	0.213	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.350		mg/kg dry	0.350	0.229	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*40-140 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-1 SC25871-13	191750214	Soil	13-Sep-16 15:15	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*65*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*53*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**4.85**		mg/kg dry	1.55	0.410	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**36.6**		mg/kg dry	1.55	0.476	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.5**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-2	191750214	Soil	13-Sep-16 15:20	14-Sep-16
SC25871-14				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	12.2	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	15.9	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	16.0	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	9.75	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	9.72	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	16.5	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	12.6	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	2.08	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	1.51	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 10.7		mg/kg dry	10.7	5.11	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 10.7		mg/kg dry	10.7	5.11	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.357		mg/kg dry	0.357	0.317	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.357		mg/kg dry	0.357	0.308	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.357		mg/kg dry	0.357	0.142	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.357		mg/kg dry	0.357	0.355	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.357		mg/kg dry	0.357	0.321	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.357		mg/kg dry	0.357	0.310	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.357		mg/kg dry	0.357	0.307	1	"	"	"	"	"	
206-44-0	Fluoranthene	**0.406**		mg/kg dry	0.357	0.132	1	"	"	"	"	"	
129-00-0	Pyrene	**0.369**		mg/kg dry	0.357	0.132	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.357		mg/kg dry	0.357	0.339	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.357		mg/kg dry	0.357	0.338	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.357		mg/kg dry	0.357	0.295	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.357		mg/kg dry	0.357	0.135	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.357		mg/kg dry	0.357	0.321	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.357		mg/kg dry	0.357	0.239	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.357		mg/kg dry	0.357	0.218	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.357		mg/kg dry	0.357	0.234	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*69*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-2 SC25871-14	191750214	Soil	13-Sep-16 15:20	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*68*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*50*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**5.61**		mg/kg dry	1.55	0.412	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**46.9**		mg/kg dry	1.55	0.478	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.6**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-3	191750214	Soil	13-Sep-16 15:25	14-Sep-16
SC25871-15				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	12.2	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	15.8	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	16.0	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	9.73	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	< 21.5		µg/kg dry	21.5	9.09	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	16.5	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	12.5	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	2.07	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**11.6**		mg/kg dry	10.7	1.51	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 10.7		mg/kg dry	10.7	5.09	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**12.7**		mg/kg dry	10.7	5.09	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.355		mg/kg dry	0.355	0.316	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.355		mg/kg dry	0.355	0.306	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.355		mg/kg dry	0.355	0.141	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.355		mg/kg dry	0.355	0.353	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.355		mg/kg dry	0.355	0.319	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.364**		mg/kg dry	0.355	0.309	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.355		mg/kg dry	0.355	0.305	1	"	"	"	"	"	
206-44-0	Fluoranthene	**0.635**		mg/kg dry	0.355	0.131	1	"	"	"	"	"	
129-00-0	Pyrene	**0.645**		mg/kg dry	0.355	0.131	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 0.355		mg/kg dry	0.355	0.337	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.355		mg/kg dry	0.355	0.336	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 0.355		mg/kg dry	0.355	0.294	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 0.355		mg/kg dry	0.355	0.135	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 0.355		mg/kg dry	0.355	0.319	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.355		mg/kg dry	0.355	0.238	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.355		mg/kg dry	0.355	0.217	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 0.355		mg/kg dry	0.355	0.233	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*64*			*40-140 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-3 SC25871-15	191750214	Soil	13-Sep-16 15:25	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*71*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*63*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**4.56**		mg/kg dry	1.59	0.421	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**38.1**		mg/kg dry	1.59	0.489	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-4	191750214	Soil	13-Sep-16 15:30	14-Sep-16
SC25871-16				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	12.2	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	15.8	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	16.0	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	9.74	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	**28.7**	P	µg/kg dry	21.5	9.71	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	16.5	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	12.6	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*305*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	2.08	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**74.1**		mg/kg dry	10.7	1.52	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**320**		mg/kg dry	10.7	5.12	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**393**	CCE	mg/kg dry	10.7	5.12	1	"	"	"	"	"	
91-20-3	Naphthalene	**0.391**		mg/kg dry	0.358	0.318	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.358		mg/kg dry	0.358	0.308	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**1.33**		mg/kg dry	0.358	0.142	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.358		mg/kg dry	0.358	0.356	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.358		mg/kg dry	0.358	0.321	1	"	"	"	"	"	
85-01-8	Phenanthrene	**2.29**		mg/kg dry	0.358	0.310	1	"	"	"	"	"	
120-12-7	Anthracene	**0.670**		mg/kg dry	0.358	0.307	1	"	"	"	"	"	
206-44-0	Fluoranthene	**12.2**		mg/kg dry	0.358	0.132	1	"	"	"	"	"	
129-00-0	Pyrene	**11.1**		mg/kg dry	0.358	0.132	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**6.27**		mg/kg dry	0.358	0.339	1	"	"	"	"	"	
218-01-9	Chrysene	**7.71**		mg/kg dry	0.358	0.338	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**7.07**		mg/kg dry	0.358	0.295	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**7.84**		mg/kg dry	0.358	0.135	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**5.73**		mg/kg dry	0.358	0.321	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**4.28**		mg/kg dry	0.358	0.240	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**1.58**		mg/kg dry	0.358	0.218	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**3.81**		mg/kg dry	0.358	0.234	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-4 SC25871-16	191750214	Soil	13-Sep-16 15:30	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*88*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*93*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**111**		mg/kg dry	1.62	0.430	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**124**		mg/kg dry	1.62	0.499	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-5	191750214	Soil	13-Sep-16 15:35	14-Sep-16
SC25871-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	11.8	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	15.4	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	15.5	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	12.9	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	9.46	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	9.44	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	16.1	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	12.2	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.4		mg/kg dry	10.4	2.02	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.4		mg/kg dry	10.4	1.47	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**57.1**		mg/kg dry	10.4	4.95	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**70.0**		mg/kg dry	10.4	4.95	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.346		mg/kg dry	0.346	0.308	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.346		mg/kg dry	0.346	0.298	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.346		mg/kg dry	0.346	0.137	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.346		mg/kg dry	0.346	0.344	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.346		mg/kg dry	0.346	0.311	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.484**		mg/kg dry	0.346	0.300	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.346		mg/kg dry	0.346	0.297	1	"	"	"	"	"	
206-44-0	Fluoranthene	**2.48**		mg/kg dry	0.346	0.128	1	"	"	"	"	"	
129-00-0	Pyrene	**2.21**		mg/kg dry	0.346	0.128	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**1.14**		mg/kg dry	0.346	0.329	1	"	"	"	"	"	
218-01-9	Chrysene	**1.33**		mg/kg dry	0.346	0.327	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**1.34**		mg/kg dry	0.346	0.286	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**1.17**		mg/kg dry	0.346	0.131	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**0.891**		mg/kg dry	0.346	0.311	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**0.586**		mg/kg dry	0.346	0.232	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.346		mg/kg dry	0.346	0.211	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.536**		mg/kg dry	0.346	0.227	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*71*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-5 SC25871-17	191750214	Soil	13-Sep-16 15:35	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*90*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*91*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**42.5**		mg/kg dry	1.52	0.403	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**152**		mg/kg dry	1.52	0.468	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.8**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-6	191750214	Soil	13-Sep-16 15:40	14-Sep-16
SC25871-18				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	11.7	1	SW846 8082A	15-Sep-16	19-Sep-16	IMR	1615918	
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	15.3	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	15.4	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.4	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	9.38	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	9.35	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	15.9	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	12.1	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.4		mg/kg dry	10.4	2.02	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	< 10.4		mg/kg dry	10.4	1.47	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**76.6**		mg/kg dry	10.4	4.96	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**107**		mg/kg dry	10.4	4.96	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.347		mg/kg dry	0.347	0.308	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.347		mg/kg dry	0.347	0.299	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**0.465**		mg/kg dry	0.347	0.137	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.347		mg/kg dry	0.347	0.345	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.347		mg/kg dry	0.347	0.311	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.592**		mg/kg dry	0.347	0.301	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.347		mg/kg dry	0.347	0.298	1	"	"	"	"	"	
206-44-0	Fluoranthene	**4.96**		mg/kg dry	0.347	0.128	1	"	"	"	"	"	
129-00-0	Pyrene	**4.96**		mg/kg dry	0.347	0.128	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**2.78**		mg/kg dry	0.347	0.329	1	"	"	"	"	"	
218-01-9	Chrysene	**2.86**		mg/kg dry	0.347	0.328	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**3.77**		mg/kg dry	0.347	0.286	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**2.81**		mg/kg dry	0.347	0.131	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**2.57**		mg/kg dry	0.347	0.311	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.71**		mg/kg dry	0.347	0.232	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.635**		mg/kg dry	0.347	0.211	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**1.59**		mg/kg dry	0.347	0.227	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*73*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-6 SC25871-18	191750214	Soil	13-Sep-16 15:40	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*90*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*74*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**41.1**		mg/kg dry	1.54	0.408	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**614**		mg/kg dry	1.54	0.474	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-7 SC25871-19	191750214	Soil	13-Sep-16 15:45	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	12.2	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	15.9	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	16.0	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	9.78	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	**23.8**	P	µg/kg dry	21.6	9.75	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	16.6	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	12.6	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3546			EPH										
	C9-C18 Aliphatic Hydrocarbons	< 108	D	mg/kg dry	108	21.0	10	MADEP EPH 5/2004 R	20-Sep-16	23-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**119**	D	mg/kg dry	108	15.3	10	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**241**	D	mg/kg dry	108	51.7	10	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**423**	D	mg/kg dry	108	51.7	10	"	"	"	"	"	
91-20-3	Naphthalene	< 3.61	D	mg/kg dry	3.61	3.21	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 3.61	D	mg/kg dry	3.61	3.11	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 3.61	D	mg/kg dry	3.61	1.43	10	"	"	"	"	"	
83-32-9	Acenaphthene	< 3.61	D	mg/kg dry	3.61	3.59	10	"	"	"	"	"	
86-73-7	Fluorene	< 3.61	D	mg/kg dry	3.61	3.24	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 3.61	D	mg/kg dry	3.61	3.14	10	"	"	"	"	"	
120-12-7	Anthracene	< 3.61	D	mg/kg dry	3.61	3.10	10	"	"	"	"	"	
206-44-0	Fluoranthene	**30.0**	D	mg/kg dry	3.61	1.33	10	"	"	"	"	"	
129-00-0	Pyrene	**30.3**	D	mg/kg dry	3.61	1.33	10	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**19.8**	D	mg/kg dry	3.61	3.43	10	"	"	"	"	"	
218-01-9	Chrysene	**18.1**	D	mg/kg dry	3.61	3.42	10	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**17.5**	D	mg/kg dry	3.61	2.98	10	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**17.9**	D	mg/kg dry	3.61	1.37	10	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**18.3**	D	mg/kg dry	3.61	3.24	10	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**10.7**	D	mg/kg dry	3.61	2.42	10	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**3.73**	D	mg/kg dry	3.61	2.20	10	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**9.59**	D	mg/kg dry	3.61	2.36	10	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*0*	S01		*40-140 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-7 SC25871-19	191750214	Soil	13-Sep-16 15:45	14-Sep-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
MADEP EPH			EPH										
84-15-1	*Ortho-Terphenyl*	*0*	S01		*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	23-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*0*	S01		*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-38-2	Arsenic	**55.4**		mg/kg dry	1.57	0.417	1	SW846 6010C	16-Sep-16	22-Sep-16	tbc	1615980	
7439-92-1	Lead	**110**		mg/kg dry	1.57	0.485	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-8	191750214	Soil	13-Sep-16 15:50	14-Sep-16
SC25871-20				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	12.1	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	15.7	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	15.8	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	9.64	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	**29.3**		µg/kg dry	21.3	9.01	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	16.4	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	12.4	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3546													
	C9-C18 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	2.07	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
	C19-C36 Aliphatic Hydrocarbons	**14.9**		mg/kg dry	10.7	1.50	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**277**		mg/kg dry	10.7	5.08	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**368**	CCE	mg/kg dry	10.7	5.08	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.355		mg/kg dry	0.355	0.315	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.355		mg/kg dry	0.355	0.306	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.355		mg/kg dry	0.355	0.141	1	"	"	"	"	"	
83-32-9	Acenaphthene	**0.683**		mg/kg dry	0.355	0.353	1	"	"	"	"	"	
86-73-7	Fluorene	**0.540**		mg/kg dry	0.355	0.319	1	"	"	"	"	"	
85-01-8	Phenanthrene	**10.5**		mg/kg dry	0.355	0.308	1	"	"	"	"	"	
120-12-7	Anthracene	**1.53**		mg/kg dry	0.355	0.305	1	"	"	"	"	"	
206-44-0	Fluoranthene	**17.4**		mg/kg dry	0.355	0.131	1	"	"	"	"	"	
129-00-0	Pyrene	**14.9**		mg/kg dry	0.355	0.131	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**7.71**		mg/kg dry	0.355	0.337	1	"	"	"	"	"	
218-01-9	Chrysene	**8.00**		mg/kg dry	0.355	0.336	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**6.78**		mg/kg dry	0.355	0.293	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**6.31**		mg/kg dry	0.355	0.134	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**7.19**		mg/kg dry	0.355	0.319	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**4.02**		mg/kg dry	0.355	0.238	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**1.44**		mg/kg dry	0.355	0.216	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**3.86**		mg/kg dry	0.355	0.232	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*93*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-8 SC25871-20	191750214	Soil	13-Sep-16 15:50	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*93*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616171	
321-60-8	*2-Fluorobiphenyl*	*83*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**16.3**		mg/kg dry	1.57	0.416	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**912**		mg/kg dry	1.57	0.483	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.1**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615905	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-9	191750214	Soil	13-Sep-16 16:15	14-Sep-16
SC25871-21				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	12.0	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	15.6	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	15.8	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	9.60	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	9.57	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	16.3	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	12.4	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	< 10.7		mg/kg dry	10.7	2.08	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
	C19-C36 Aliphatic Hydrocarbons	**111**		mg/kg dry	10.7	1.51	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**81.2**		mg/kg dry	10.7	5.10	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**104**		mg/kg dry	10.7	5.10	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.357		mg/kg dry	0.357	0.317	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.357		mg/kg dry	0.357	0.307	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.357		mg/kg dry	0.357	0.141	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.357		mg/kg dry	0.357	0.354	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.357		mg/kg dry	0.357	0.320	1	"	"	"	"	"	
85-01-8	Phenanthrene	**1.58**		mg/kg dry	0.357	0.309	1	"	"	"	"	"	
120-12-7	Anthracene	**0.400**		mg/kg dry	0.357	0.306	1	"	"	"	"	"	
206-44-0	Fluoranthene	**3.48**		mg/kg dry	0.357	0.132	1	"	"	"	"	"	
129-00-0	Pyrene	**2.14**		mg/kg dry	0.357	0.132	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**1.77**		mg/kg dry	0.357	0.338	1	"	"	"	"	"	
218-01-9	Chrysene	**1.91**		mg/kg dry	0.357	0.337	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**2.62**		mg/kg dry	0.357	0.294	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**1.90**		mg/kg dry	0.357	0.135	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**2.27**		mg/kg dry	0.357	0.320	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.71**		mg/kg dry	0.357	0.239	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.575**		mg/kg dry	0.357	0.217	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**1.77**		mg/kg dry	0.357	0.233	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*63*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
27-9 SC25871-21	191750214	Soil	13-Sep-16 16:15	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*66*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
321-60-8	*2-Fluorobiphenyl*	*52*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**5.61**		mg/kg dry	1.62	0.429	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**101**		mg/kg dry	1.62	0.498	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615907	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-1	191750214	Soil	13-Sep-16 15:55	14-Sep-16
SC25871-22				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.5	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.2	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	**65.7**		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.24	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.21	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.7	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.98	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
	C19-C36 Aliphatic Hydrocarbons	**53.8**		mg/kg dry	10.2	1.44	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**121**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**162**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.341		mg/kg dry	0.341	0.303	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.341		mg/kg dry	0.341	0.294	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**0.708**		mg/kg dry	0.341	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.341		mg/kg dry	0.341	0.339	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.341		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.646**		mg/kg dry	0.341	0.296	1	"	"	"	"	"	
120-12-7	Anthracene	**0.588**		mg/kg dry	0.341	0.292	1	"	"	"	"	"	
206-44-0	Fluoranthene	**5.63**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	**5.74**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**3.56**		mg/kg dry	0.341	0.323	1	"	"	"	"	"	
218-01-9	Chrysene	**3.77**		mg/kg dry	0.341	0.322	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**6.05**		mg/kg dry	0.341	0.281	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**3.83**		mg/kg dry	0.341	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**3.91**		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**2.96**		mg/kg dry	0.341	0.228	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.990**		mg/kg dry	0.341	0.208	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**2.79**		mg/kg dry	0.341	0.223	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*80*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-1 SC25871-22	191750214	Soil	13-Sep-16 15:55	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*87*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
321-60-8	*2-Fluorobiphenyl*	*85*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**39.7**		mg/kg dry	1.52	0.403	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**98.7**		mg/kg dry	1.52	0.467	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.8**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615907	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-2	191750214	Soil	13-Sep-16 16:00	14-Sep-16
SC25871-23				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	11.6	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	15.2	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	15.3	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	12.7	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	9.31	1	"	"	"	"	"	
11096-82-5	Aroclor-1260 [2C]	**110**		µg/kg dry	20.6	8.70	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	15.8	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	12.0	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*40*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.98	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
	C19-C36 Aliphatic Hydrocarbons	**27.7**		mg/kg dry	10.2	1.44	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**170**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**232**		mg/kg dry	10.2	4.87	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.340		mg/kg dry	0.340	0.302	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.340		mg/kg dry	0.340	0.293	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**1.04**		mg/kg dry	0.340	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.340		mg/kg dry	0.340	0.338	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.340		mg/kg dry	0.340	0.305	1	"	"	"	"	"	
85-01-8	Phenanthrene	**1.22**		mg/kg dry	0.340	0.295	1	"	"	"	"	"	
120-12-7	Anthracene	**0.473**		mg/kg dry	0.340	0.292	1	"	"	"	"	"	
206-44-0	Fluoranthene	**10.6**		mg/kg dry	0.340	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	**9.99**		mg/kg dry	0.340	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**6.15**		mg/kg dry	0.340	0.323	1	"	"	"	"	"	
218-01-9	Chrysene	**5.81**		mg/kg dry	0.340	0.322	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**8.14**		mg/kg dry	0.340	0.281	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**4.97**		mg/kg dry	0.340	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**5.35**		mg/kg dry	0.340	0.305	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**3.50**		mg/kg dry	0.340	0.228	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**1.22**		mg/kg dry	0.340	0.207	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**3.31**		mg/kg dry	0.340	0.223	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*72*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-2 SC25871-23	191750214	Soil	13-Sep-16 16:00	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*77*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
321-60-8	*2-Fluorobiphenyl*	*85*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**102**		mg/kg dry	1.50	0.398	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**407**		mg/kg dry	1.50	0.462	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.2**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615907	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-3	191750214	Soil	13-Sep-16 16:05	14-Sep-16
SC25871-24				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	11.5	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	15.1	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	9.20	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	9.17	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	15.6	1	"	"	"	"	"	
11100-14-4	Aroclor-1268 [2C]	< 20.3		µg/kg dry	20.3	13.8	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*45*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	< 9.97		mg/kg dry	9.97	1.93	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
	C19-C36 Aliphatic Hydrocarbons	< 9.97		mg/kg dry	9.97	1.41	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**76.8**		mg/kg dry	9.97	4.75	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**102**		mg/kg dry	9.97	4.75	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.332		mg/kg dry	0.332	0.295	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.332		mg/kg dry	0.332	0.286	1	"	"	"	"	"	
208-96-8	Acenaphthylene	**0.388**		mg/kg dry	0.332	0.132	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.332		mg/kg dry	0.332	0.330	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.332		mg/kg dry	0.332	0.298	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.473**		mg/kg dry	0.332	0.288	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.332		mg/kg dry	0.332	0.285	1	"	"	"	"	"	
206-44-0	Fluoranthene	**5.22**		mg/kg dry	0.332	0.123	1	"	"	"	"	"	
129-00-0	Pyrene	**4.35**		mg/kg dry	0.332	0.123	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**2.65**		mg/kg dry	0.332	0.315	1	"	"	"	"	"	
218-01-9	Chrysene	**2.64**		mg/kg dry	0.332	0.314	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**2.06**		mg/kg dry	0.332	0.274	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**2.37**		mg/kg dry	0.332	0.126	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**2.11**		mg/kg dry	0.332	0.298	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**1.31**		mg/kg dry	0.332	0.222	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	**0.486**		mg/kg dry	0.332	0.202	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**1.16**		mg/kg dry	0.332	0.217	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*98*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-3 SC25871-24	191750214	Soil	13-Sep-16 16:05	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*105*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
321-60-8	*2-Fluorobiphenyl*	*74*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**26.7**		mg/kg dry	1.46	0.387	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**78.7**		mg/kg dry	1.46	0.450	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.5**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615907	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-4 SC25871-25	191750214	Soil	13-Sep-16 16:10	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	11.5	1	SW846 8082A	16-Sep-16	19-Sep-16	IMR	1615991	
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	15.0	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	15.1	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.2	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	9.21	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	9.18	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	15.6	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	11.9	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	< 10.2		mg/kg dry	10.2	1.99	1	MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
	C19-C36 Aliphatic Hydrocarbons	**51.7**		mg/kg dry	10.2	1.45	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	**62.4**		mg/kg dry	10.2	4.88	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	**70.7**		mg/kg dry	10.2	4.88	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.341		mg/kg dry	0.341	0.303	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.341		mg/kg dry	0.341	0.294	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.341		mg/kg dry	0.341	0.135	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.341		mg/kg dry	0.341	0.339	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.341		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
85-01-8	Phenanthrene	**0.721**		mg/kg dry	0.341	0.296	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.341		mg/kg dry	0.341	0.293	1	"	"	"	"	"	
206-44-0	Fluoranthene	**1.43**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
129-00-0	Pyrene	**1.10**		mg/kg dry	0.341	0.126	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	**0.604**		mg/kg dry	0.341	0.324	1	"	"	"	"	"	
218-01-9	Chrysene	**0.985**		mg/kg dry	0.341	0.323	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	**0.702**		mg/kg dry	0.341	0.282	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	**0.682**		mg/kg dry	0.341	0.129	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	**0.556**		mg/kg dry	0.341	0.306	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	**0.456**		mg/kg dry	0.341	0.229	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 0.341		mg/kg dry	0.341	0.208	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	**0.448**		mg/kg dry	0.341	0.223	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*40-140 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
28-4 SC25871-25	191750214	Soil	13-Sep-16 16:10	14-Sep-16

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH													
84-15-1	*Ortho-Terphenyl*	*86*			*40-140 %*			MADEP EPH 5/2004 R	20-Sep-16	22-Sep-16	NAA	1616222	
321-60-8	*2-Fluorobiphenyl*	*70*			*40-140 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-38-2	Arsenic	**11.8**		mg/kg dry	1.49	0.395	1	SW846 6010C	21-Sep-16	21-Sep-16	TBC	1615978	
7439-92-1	Lead	**1,230**		mg/kg dry	1.49	0.459	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.3**		%			1	SM2540 G (11) Mod.	14-Sep-16	14-Sep-16	EEM	1615907	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615918 - SW846 3546										
Blank (1615918-BLK1)					Prepared: 15-Sep-16 Analyzed: 16-Sep-16					
Aroclor-1016	< 19.8		µg/kg wet	19.8						
Aroclor-1016 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1221	< 19.8		µg/kg wet	19.8						
Aroclor-1221 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1232	< 19.8		µg/kg wet	19.8						
Aroclor-1232 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1242	< 19.8		µg/kg wet	19.8						
Aroclor-1242 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1248	< 19.8		µg/kg wet	19.8						
Aroclor-1248 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1254	< 19.8		µg/kg wet	19.8						
Aroclor-1254 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1260	< 19.8		µg/kg wet	19.8						
Aroclor-1260 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1262	< 19.8		µg/kg wet	19.8						
Aroclor-1262 [2C]	< 19.8		µg/kg wet	19.8						
Aroclor-1268	< 19.8		µg/kg wet	19.8						
Aroclor-1268 [2C]	< 19.8		µg/kg wet	19.8						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*13.9*		µg/kg wet		*19.8*		*70*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*14.9*		µg/kg wet		*19.8*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.8*		µg/kg wet		*19.8*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		
LCS (1615918-BS1)					Prepared: 15-Sep-16 Analyzed: 16-Sep-16					
Aroclor-1016	**184**		µg/kg wet	19.8	247		74	40-140		
Aroclor-1016 [2C]	**168**		µg/kg wet	19.8	247		68	40-140		
Aroclor-1260	**180**		µg/kg wet	19.8	247		73	40-140		
Aroclor-1260 [2C]	**165**		µg/kg wet	19.8	247		67	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*13.8*		µg/kg wet		*19.8*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*12.9*		µg/kg wet		*19.8*		*65*	*30-150*		
LCS Dup (1615918-BSD1)					Prepared: 15-Sep-16 Analyzed: 16-Sep-16					
Aroclor-1016	**172**		µg/kg wet	19.8	247		70	40-140	7	30
Aroclor-1016 [2C]	**167**		µg/kg wet	19.8	247		68	40-140	0.7	30
Aroclor-1260	**170**		µg/kg wet	19.8	247		69	40-140	6	30
Aroclor-1260 [2C]	**155**		µg/kg wet	19.8	247		63	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*11.9*		µg/kg wet		*19.8*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*11.9*		µg/kg wet		*19.8*		*60*	*30-150*		
Duplicate (1615918-DUP1)			**Source: SC25871-12**		Prepared: 15-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1016	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1016 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1221	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1221 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1232	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1232 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1242	< 20.3		µg/kg dry	20.3		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615918 - SW846 3546										
Duplicate (1615918-DUP1)			**Source: SC25871-12**		Prepared: 15-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1242 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1248	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1248 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1254	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1254 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1260	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1260 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1262	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1262 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1268	< 20.3		µg/kg dry	20.3		BRL				30
Aroclor-1268 [2C]	< 20.3		µg/kg dry	20.3		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.2*		µg/kg dry		*20.3*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.2*		µg/kg dry		*20.3*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.2*		µg/kg dry		*20.3*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*13.2*		µg/kg dry		*20.3*		*65*	*30-150*		
Matrix Spike (1615918-MS1)			**Source: SC25871-12**		Prepared: 15-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1016	**240**		µg/kg dry	20.1	251	BRL	96	40-140		
Aroclor-1016 [2C]	**312**		µg/kg dry	20.1	251	BRL	124	40-140		
Aroclor-1260	**298**		µg/kg dry	20.1	251	BRL	118	40-140		
Aroclor-1260 [2C]	**312**		µg/kg dry	20.1	251	BRL	124	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.1*		µg/kg dry		*20.1*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.1*		µg/kg dry		*20.1*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.1*		µg/kg dry		*20.1*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.1*		µg/kg dry		*20.1*		*100*	*30-150*		
Matrix Spike Dup (1615918-MSD1)			**Source: SC25871-12**		Prepared: 15-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1016	**217**		µg/kg dry	20.3	254	BRL	86	40-140	10	30
Aroclor-1016 [2C]	**270**		µg/kg dry	20.3	254	BRL	106	40-140	14	30
Aroclor-1260	**270**		µg/kg dry	20.3	254	BRL	106	40-140	10	30
Aroclor-1260 [2C]	**269**		µg/kg dry	20.3	254	BRL	106	40-140	15	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*13.2*		µg/kg dry		*20.3*		*65*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.2*		µg/kg dry		*20.3*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.3*		µg/kg dry		*20.3*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.3*		µg/kg dry		*20.3*		*80*	*30-150*		
Batch 1615991 - SW846 3546										
Blank (1615991-BLK1)					Prepared & Analyzed: 16-Sep-16					
Aroclor-1016	< 19.9		µg/kg wet	19.9						
Aroclor-1016 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1221	< 19.9		µg/kg wet	19.9						
Aroclor-1221 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1232	< 19.9		µg/kg wet	19.9						
Aroclor-1232 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1242	< 19.9		µg/kg wet	19.9						
Aroclor-1242 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1248	< 19.9		µg/kg wet	19.9						
Aroclor-1248 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1254	< 19.9		µg/kg wet	19.9						
Aroclor-1254 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1260	< 19.9		µg/kg wet	19.9						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615991 - SW846 3546										
Blank (1615991-BLK1)						Prepared & Analyzed: 16-Sep-16				
Aroclor-1260 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1262	< 19.9		µg/kg wet	19.9						
Aroclor-1262 [2C]	< 19.9		µg/kg wet	19.9						
Aroclor-1268	< 19.9		µg/kg wet	19.9						
Aroclor-1268 [2C]	< 19.9		µg/kg wet	19.9						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.9*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.9*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.9*		µg/kg wet		*19.9*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.9*		µg/kg wet		*19.9*		*75*	*30-150*		
LCS (1615991-BS1)						Prepared & Analyzed: 16-Sep-16				
Aroclor-1016	**203**		µg/kg wet	19.8	247		82	40-140		
Aroclor-1016 [2C]	**224**		µg/kg wet	19.8	247		90	40-140		
Aroclor-1260	**255**		µg/kg wet	19.8	247		103	40-140		
Aroclor-1260 [2C]	**238**		µg/kg wet	19.8	247		96	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.9*		µg/kg wet		*19.8*		*65*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*12.9*		µg/kg wet		*19.8*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.8*		µg/kg wet		*19.8*		*75*	*30-150*		
LCS Dup (1615991-BSD1)						Prepared & Analyzed: 16-Sep-16				
Aroclor-1016	**181**		µg/kg wet	19.1	239		76	40-140	11	30
Aroclor-1016 [2C]	**189**		µg/kg wet	19.1	239		79	40-140	17	30
Aroclor-1260	**215**		µg/kg wet	19.1	239		90	40-140	17	30
Aroclor-1260 [2C]	**198**		µg/kg wet	19.1	239		83	40-140	18	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.5*		µg/kg wet		*19.1*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*10.5*		µg/kg wet		*19.1*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.2*		µg/kg wet		*19.1*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*12.4*		µg/kg wet		*19.1*		*65*	*30-150*		
Duplicate (1615991-DUP1)			**Source: SC25871-20**			Prepared: 16-Sep-16 Analyzed: 19-Sep-16				
Aroclor-1016	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1016 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1221	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1221 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1232	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1232 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1242	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1242 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1248	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1248 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1254	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1254 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1260	**28.8**		µg/kg dry	21.3		26.4			9	30
Aroclor-1260 [2C]	**37.3**		µg/kg dry	21.3		29.3			24	30
Aroclor-1262	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1262 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1268	< 21.3		µg/kg dry	21.3		BRL				30
Aroclor-1268 [2C]	< 21.3		µg/kg dry	21.3		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.2*		µg/kg dry		*21.3*		*90*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615991 - SW846 3546										
Duplicate (1615991-DUP1)			**Source: SC25871-20**		Prepared: 16-Sep-16 Analyzed: 19-Sep-16					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*10.7*		µg/kg dry		*21.3*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*11.7*		µg/kg dry		*21.3*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg dry		*21.3*		*75*	*30-150*		
Matrix Spike (1615991-MS1)			**Source: SC25871-20**		Prepared: 16-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1016	**287**		µg/kg dry	21.2	266	BRL	108	40-140		
Aroclor-1016 [2C]	**286**		µg/kg dry	21.2	266	BRL	108	40-140		
Aroclor-1260	**204**		µg/kg dry	21.2	266	26.4	67	40-140		
Aroclor-1260 [2C]	**282**		µg/kg dry	21.2	266	29.3	95	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.9*		µg/kg dry		*21.2*		*75*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.9*		µg/kg dry		*21.2*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.4*		µg/kg dry		*21.2*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.1*		µg/kg dry		*21.2*		*85*	*30-150*		
Matrix Spike Dup (1615991-MSD1)			**Source: SC25871-20**		Prepared: 16-Sep-16 Analyzed: 19-Sep-16					
Aroclor-1016	**273**		µg/kg dry	21.3	266	BRL	102	40-140	5	30
Aroclor-1016 [2C]	**236**		µg/kg dry	21.3	266	BRL	88	40-140	19	30
Aroclor-1260	**233**		µg/kg dry	21.3	266	26.4	78	40-140	13	30
Aroclor-1260 [2C]	**287**		µg/kg dry	21.3	266	29.3	97	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.1*		µg/kg dry		*21.3*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*14.9*		µg/kg dry		*21.3*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.1*		µg/kg dry		*21.3*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.9*		µg/kg dry		*21.3*		*70*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616171 - SW846 3546										
Blank (1616171-BLK1)					Prepared: 20-Sep-16 Analyzed: 22-Sep-16					
C9-C18 Aliphatic Hydrocarbons	< 9.96		mg/kg wet	9.96						
C19-C36 Aliphatic Hydrocarbons	< 9.96		mg/kg wet	9.96						
C11-C22 Aromatic Hydrocarbons	< 9.96		mg/kg wet	9.96						
Unadjusted C11-C22 Aromatic Hydrocarbons	< 9.96		mg/kg wet	9.96						
Total Petroleum Hydrocarbons	< 29.9		mg/kg wet	29.9						
Unadjusted Total Petroleum Hydrocarbons	< 29.9		mg/kg wet	29.9						
Naphthalene	< 0.332		mg/kg wet	0.332						
2-Methylnaphthalene	< 0.332		mg/kg wet	0.332						
Acenaphthylene	< 0.332		mg/kg wet	0.332						
Acenaphthene	< 0.332		mg/kg wet	0.332						
Fluorene	< 0.332		mg/kg wet	0.332						
Phenanthrene	< 0.332		mg/kg wet	0.332						
Anthracene	< 0.332		mg/kg wet	0.332						
Fluoranthene	< 0.332		mg/kg wet	0.332						
Pyrene	< 0.332		mg/kg wet	0.332						
Benzo (a) anthracene	< 0.332		mg/kg wet	0.332						
Chrysene	< 0.332		mg/kg wet	0.332						
Benzo (b) fluoranthene	< 0.332		mg/kg wet	0.332						
Benzo (k) fluoranthene	< 0.332		mg/kg wet	0.332						
Benzo (a) pyrene	< 0.332		mg/kg wet	0.332						
Indeno (1,2,3-cd) pyrene	< 0.332		mg/kg wet	0.332						
Dibenzo (a,h) anthracene	< 0.332		mg/kg wet	0.332						
Benzo (g,h,i) perylene	< 0.332		mg/kg wet	0.332						
n-Nonane (C9)	< 0.332		mg/kg wet	0.332						
n-Decane	< 0.332		mg/kg wet	0.332						
n-Dodecane	< 0.332		mg/kg wet	0.332						
n-Tetradecane	< 0.332		mg/kg wet	0.332						
n-Hexadecane	< 0.332		mg/kg wet	0.332						
n-Octadecane	< 0.332		mg/kg wet	0.332						
n-Nonadecane	< 0.332		mg/kg wet	0.332						
n-Eicosane	< 0.332		mg/kg wet	0.332						
n-Docosane	< 0.332		mg/kg wet	0.332						
n-Tetracosane	< 0.332		mg/kg wet	0.332						
n-Hexacosane	< 0.332		mg/kg wet	0.332						
n-Octacosane	< 0.332		mg/kg wet	0.332						
n-Triacontane	< 0.332		mg/kg wet	0.332						
n-Hexatriacontane	< 0.332		mg/kg wet	0.332						
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet							
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet							
Surrogate: 1-Chlorooctadecane	*2.37*		mg/kg wet		*3.32*		*71*	*40-140*		
Surrogate: Ortho-Terphenyl	*2.24*		mg/kg wet		*3.32*		*68*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.28*		mg/kg wet		*2.66*		*48*	*40-140*		
LCS (1616171-BS1)					Prepared: 20-Sep-16 Analyzed: 22-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**38.8**		mg/kg wet	9.85	39.4		98	40-140		
C19-C36 Aliphatic Hydrocarbons	**34.0**		mg/kg wet	9.85	52.6		65	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**31.8**		mg/kg wet	9.85	44.7		71	40-140		
Naphthalene	**1.47**		mg/kg wet	0.328	2.63		56	40-140		
2-Methylnaphthalene	**1.52**		mg/kg wet	0.328	2.63		58	40-140		
Acenaphthylene	**1.89**		mg/kg wet	0.328	2.63		72	40-140		
Acenaphthene	**1.79**		mg/kg wet	0.328	2.63		68	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616171 - SW846 3546										
LCS (1616171-BS1)					Prepared: 20-Sep-16 Analyzed: 22-Sep-16					
Fluorene	**1.67**		mg/kg wet	0.328	2.63		64	40-140		
Phenanthrene	**1.69**		mg/kg wet	0.328	2.63		64	40-140		
Anthracene	**1.64**		mg/kg wet	0.328	2.63		62	40-140		
Fluoranthene	**1.97**		mg/kg wet	0.328	2.63		75	40-140		
Pyrene	**1.95**		mg/kg wet	0.328	2.63		74	40-140		
Benzo (a) anthracene	**1.90**		mg/kg wet	0.328	2.63		72	40-140		
Chrysene	**1.84**		mg/kg wet	0.328	2.63		70	40-140		
Benzo (b) fluoranthene	**2.28**		mg/kg wet	0.328	2.63		87	40-140		
Benzo (k) fluoranthene	**2.02**		mg/kg wet	0.328	2.63		77	40-140		
Benzo (a) pyrene	**1.97**		mg/kg wet	0.328	2.63		75	40-140		
Indeno (1,2,3-cd) pyrene	**2.04**		mg/kg wet	0.328	2.63		78	40-140		
Dibenzo (a,h) anthracene	**2.03**		mg/kg wet	0.328	2.63		77	40-140		
Benzo (g,h,i) perylene	**1.97**		mg/kg wet	0.328	2.63		75	40-140		
n-Nonane (C9)	**4.10**		mg/kg wet	0.328	6.57		62	30-140		
n-Decane	**4.49**		mg/kg wet	0.328	6.57		68	40-140		
n-Dodecane	**4.48**		mg/kg wet	0.328	6.57		68	40-140		
n-Tetradecane	**4.41**		mg/kg wet	0.328	6.57		67	40-140		
n-Hexadecane	**4.37**		mg/kg wet	0.328	6.57		67	40-140		
n-Octadecane	**4.33**		mg/kg wet	0.328	6.57		66	40-140		
n-Nonadecane	**4.40**		mg/kg wet	0.328	6.57		67	40-140		
n-Eicosane	**4.39**		mg/kg wet	0.328	6.57		67	40-140		
n-Docosane	**4.44**		mg/kg wet	0.328	6.57		68	40-140		
n-Tetracosane	**4.74**		mg/kg wet	0.328	6.57		72	40-140		
n-Hexacosane	**4.61**		mg/kg wet	0.328	6.57		70	40-140		
n-Octacosane	**4.65**		mg/kg wet	0.328	6.57		71	40-140		
n-Triacontane	**4.73**		mg/kg wet	0.328	6.57		72	40-140		
n-Hexatriacontane	**5.03**		mg/kg wet	0.328	6.57		77	40-140		
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.63			0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.63			0-200		
Surrogate: 1-Chlorooctadecane	*3.93*		mg/kg wet		*3.28*		*120*	*40-140*		
Surrogate: Ortho-Terphenyl	*1.95*		mg/kg wet		*3.28*		*59*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.68*		mg/kg wet		*2.63*		*64*	*40-140*		
LCS (1616171-BS2)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**42.0**		mg/kg wet	10.0	40.0		105	40-140		
C19-C36 Aliphatic Hydrocarbons	**40.5**		mg/kg wet	10.0	53.3		76	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**32.9**		mg/kg wet	10.0	45.3		73	40-140		
Naphthalene	**1.51**		mg/kg wet	0.333	2.67		57	40-140		
2-Methylnaphthalene	**1.50**		mg/kg wet	0.333	2.67		56	40-140		
Acenaphthylene	**1.87**		mg/kg wet	0.333	2.67		70	40-140		
Acenaphthene	**1.78**		mg/kg wet	0.333	2.67		67	40-140		
Fluorene	**1.70**		mg/kg wet	0.333	2.67		64	40-140		
Phenanthrene	**1.77**		mg/kg wet	0.333	2.67		66	40-140		
Anthracene	**1.66**		mg/kg wet	0.333	2.67		62	40-140		
Fluoranthene	**1.95**		mg/kg wet	0.333	2.67		73	40-140		
Pyrene	**1.94**		mg/kg wet	0.333	2.67		73	40-140		
Benzo (a) anthracene	**1.79**		mg/kg wet	0.333	2.67		67	40-140		
Chrysene	**1.86**		mg/kg wet	0.333	2.67		70	40-140		
Benzo (b) fluoranthene	**1.83**		mg/kg wet	0.333	2.67		69	40-140		
Benzo (k) fluoranthene	**1.97**		mg/kg wet	0.333	2.67		74	40-140		
Benzo (a) pyrene	**1.84**		mg/kg wet	0.333	2.67		69	40-140		
Indeno (1,2,3-cd) pyrene	**1.84**		mg/kg wet	0.333	2.67		69	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616171 - SW846 3546										
LCS (1616171-BS2)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
Dibenzo (a,h) anthracene	**1.82**		mg/kg wet	0.333	2.67		68	40-140		
Benzo (g,h,i) perylene	**1.95**		mg/kg wet	0.333	2.67		73	40-140		
n-Nonane (C9)	**3.58**		mg/kg wet	0.333	6.67		54	30-140		
n-Decane	**3.86**		mg/kg wet	0.333	6.67		58	40-140		
n-Dodecane	**3.95**		mg/kg wet	0.333	6.67		59	40-140		
n-Tetradecane	**3.84**		mg/kg wet	0.333	6.67		58	40-140		
n-Hexadecane	**3.76**		mg/kg wet	0.333	6.67		56	40-140		
n-Octadecane	**3.75**		mg/kg wet	0.333	6.67		56	40-140		
n-Nonadecane	**3.77**		mg/kg wet	0.333	6.67		57	40-140		
n-Eicosane	**3.82**		mg/kg wet	0.333	6.67		57	40-140		
n-Docosane	**3.90**		mg/kg wet	0.333	6.67		58	40-140		
n-Tetracosane	**3.95**		mg/kg wet	0.333	6.67		59	40-140		
n-Hexacosane	**4.03**		mg/kg wet	0.333	6.67		60	40-140		
n-Octacosane	**4.17**		mg/kg wet	0.333	6.67		63	40-140		
n-Triacontane	**4.20**		mg/kg wet	0.333	6.67		63	40-140		
n-Hexatriacontane	**4.56**		mg/kg wet	0.333	6.67		68	40-140		
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.67			0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.67			0-200		
Surrogate: 1-Chlorooctadecane	*3.90*		mg/kg wet		*3.33*		*117*	*40-140*		
Surrogate: Ortho-Terphenyl	*1.91*		mg/kg wet		*3.33*		*57*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.70*		mg/kg wet		*2.67*		*64*	*40-140*		
LCS Dup (1616171-BSD1)					Prepared: 20-Sep-16 Analyzed: 22-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**35.4**		mg/kg wet	9.99	40.0		88	40-140	9	25
C19-C36 Aliphatic Hydrocarbons	**27.2**		mg/kg wet	9.99	53.3		51	40-140	22	25
Unadjusted C11-C22 Aromatic Hydrocarbons	**37.0**		mg/kg wet	9.99	45.3		82	40-140	15	25
Naphthalene	**1.48**		mg/kg wet	0.333	2.66		56	40-140	0.8	25
2-Methylnaphthalene	**1.53**		mg/kg wet	0.333	2.66		57	40-140	0.5	25
Acenaphthylene	**1.96**		mg/kg wet	0.333	2.66		74	40-140	4	25
Acenaphthene	**1.85**		mg/kg wet	0.333	2.66		69	40-140	3	25
Fluorene	**1.70**		mg/kg wet	0.333	2.66		64	40-140	2	25
Phenanthrene	**1.72**		mg/kg wet	0.333	2.66		64	40-140	2	25
Anthracene	**1.72**		mg/kg wet	0.333	2.66		65	40-140	5	25
Fluoranthene	**2.14**		mg/kg wet	0.333	2.66		80	40-140	8	25
Pyrene	**2.10**		mg/kg wet	0.333	2.66		79	40-140	7	25
Benzo (a) anthracene	**1.93**		mg/kg wet	0.333	2.66		72	40-140	1	25
Chrysene	**1.95**		mg/kg wet	0.333	2.66		73	40-140	6	25
Benzo (b) fluoranthene	**1.63**	QR2	mg/kg wet	0.333	2.66		61	40-140	33	25
Benzo (k) fluoranthene	**2.08**		mg/kg wet	0.333	2.66		78	40-140	3	25
Benzo (a) pyrene	**1.95**		mg/kg wet	0.333	2.66		73	40-140	1	25
Indeno (1,2,3-cd) pyrene	**1.94**		mg/kg wet	0.333	2.66		73	40-140	5	25
Dibenzo (a,h) anthracene	**1.93**		mg/kg wet	0.333	2.66		73	40-140	5	25
Benzo (g,h,i) perylene	**1.91**		mg/kg wet	0.333	2.66		72	40-140	3	25
n-Nonane (C9)	**3.37**		mg/kg wet	0.333	6.66		51	30-140	20	25
n-Decane	**3.52**		mg/kg wet	0.333	6.66		53	40-140	24	25
n-Dodecane	**3.37**	QR2	mg/kg wet	0.333	6.66		51	40-140	28	25
n-Tetradecane	**3.34**	QR2	mg/kg wet	0.333	6.66		50	40-140	28	25
n-Hexadecane	**3.35**	QR2	mg/kg wet	0.333	6.66		50	40-140	27	25
n-Octadecane	**3.33**	QR2	mg/kg wet	0.333	6.66		50	40-140	26	25
n-Nonadecane	**3.32**	QR2	mg/kg wet	0.333	6.66		50	40-140	28	25
n-Eicosane	**3.29**	QR2	mg/kg wet	0.333	6.66		49	40-140	29	25
n-Docosane	**3.29**	QR2	mg/kg wet	0.333	6.66		49	40-140	30	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616171 - SW846 3546										
LCS Dup (1616171-BSD1)					Prepared: 20-Sep-16 Analyzed: 22-Sep-16					
n-Tetracosane	**3.53**	QR2	mg/kg wet	0.333	6.66		53	40-140	29	25
n-Hexacosane	**3.35**	QR2	mg/kg wet	0.333	6.66		50	40-140	32	25
n-Octacosane	**3.39**	QR2	mg/kg wet	0.333	6.66		51	40-140	31	25
n-Triacontane	**3.43**	QR2	mg/kg wet	0.333	6.66		51	40-140	32	25
n-Hexatriacontane	**3.64**	QR2	mg/kg wet	0.333	6.66		55	40-140	32	25
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.66			0-200		200
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.66			0-200		200
Surrogate: 1-Chlorooctadecane	*3.54*		mg/kg wet		*3.33*		*106*	*40-140*		
Surrogate: Ortho-Terphenyl	*2.12*		mg/kg wet		*3.33*		*64*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.62*		mg/kg wet		*2.66*		*61*	*40-140*		
Batch 1616222 - SW846 3545A										
Blank (1616222-BLK1)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
C9-C18 Aliphatic Hydrocarbons	< 9.86		mg/kg wet	9.86						
C19-C36 Aliphatic Hydrocarbons	< 9.86		mg/kg wet	9.86						
C11-C22 Aromatic Hydrocarbons	< 9.86		mg/kg wet	9.86						
Unadjusted C11-C22 Aromatic Hydrocarbons	< 9.86		mg/kg wet	9.86						
Total Petroleum Hydrocarbons	< 29.6		mg/kg wet	29.6						
Unadjusted Total Petroleum Hydrocarbons	< 29.6		mg/kg wet	29.6						
Naphthalene	< 0.328		mg/kg wet	0.328						
2-Methylnaphthalene	< 0.328		mg/kg wet	0.328						
Acenaphthylene	< 0.328		mg/kg wet	0.328						
Acenaphthene	< 0.328		mg/kg wet	0.328						
Fluorene	< 0.328		mg/kg wet	0.328						
Phenanthrene	< 0.328		mg/kg wet	0.328						
Anthracene	< 0.328		mg/kg wet	0.328						
Fluoranthene	< 0.328		mg/kg wet	0.328						
Pyrene	< 0.328		mg/kg wet	0.328						
Benzo (a) anthracene	< 0.328		mg/kg wet	0.328						
Chrysene	< 0.328		mg/kg wet	0.328						
Benzo (b) fluoranthene	< 0.328		mg/kg wet	0.328						
Benzo (k) fluoranthene	< 0.328		mg/kg wet	0.328						
Benzo (a) pyrene	< 0.328		mg/kg wet	0.328						
Indeno (1,2,3-cd) pyrene	< 0.328		mg/kg wet	0.328						
Dibenzo (a,h) anthracene	< 0.328		mg/kg wet	0.328						
Benzo (g,h,i) perylene	< 0.328		mg/kg wet	0.328						
n-Nonane (C9)	< 0.328		mg/kg wet	0.328						
n-Decane	< 0.328		mg/kg wet	0.328						
n-Dodecane	< 0.328		mg/kg wet	0.328						
n-Tetradecane	< 0.328		mg/kg wet	0.328						
n-Hexadecane	< 0.328		mg/kg wet	0.328						
n-Octadecane	< 0.328		mg/kg wet	0.328						
n-Nonadecane	< 0.328		mg/kg wet	0.328						
n-Eicosane	< 0.328		mg/kg wet	0.328						
n-Docosane	< 0.328		mg/kg wet	0.328						
n-Tetracosane	< 0.328		mg/kg wet	0.328						
n-Hexacosane	< 0.328		mg/kg wet	0.328						
n-Octacosane	< 0.328		mg/kg wet	0.328						
n-Triacontane	< 0.328		mg/kg wet	0.328						
n-Hexatriacontane	< 0.328		mg/kg wet	0.328						
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616222 - SW846 3545A										
Blank (1616222-BLK1)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet							
Surrogate: 1-Chlorooctadecane	*2.47*		mg/kg wet		*3.29*		*75*	*40-140*		
Surrogate: Ortho-Terphenyl	*2.15*		mg/kg wet		*3.29*		*65*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.33*		mg/kg wet		*2.63*		*51*	*40-140*		
LCS (1616222-BS1)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**42.5**		mg/kg wet	9.78	39.1		109	40-140		
C19-C36 Aliphatic Hydrocarbons	**29.3**		mg/kg wet	9.78	52.1		56	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**31.7**		mg/kg wet	9.78	44.3		72	40-140		
Naphthalene	**1.43**		mg/kg wet	0.326	2.61		55	40-140		
2-Methylnaphthalene	**1.44**		mg/kg wet	0.326	2.61		55	40-140		
Acenaphthylene	**1.81**		mg/kg wet	0.326	2.61		69	40-140		
Acenaphthene	**1.73**		mg/kg wet	0.326	2.61		66	40-140		
Fluorene	**1.64**		mg/kg wet	0.326	2.61		63	40-140		
Phenanthrene	**1.72**		mg/kg wet	0.326	2.61		66	40-140		
Anthracene	**1.65**		mg/kg wet	0.326	2.61		63	40-140		
Fluoranthene	**1.86**		mg/kg wet	0.326	2.61		71	40-140		
Pyrene	**1.86**		mg/kg wet	0.326	2.61		71	40-140		
Benzo (a) anthracene	**1.79**		mg/kg wet	0.326	2.61		69	40-140		
Chrysene	**1.80**		mg/kg wet	0.326	2.61		69	40-140		
Benzo (b) fluoranthene	**1.50**		mg/kg wet	0.326	2.61		57	40-140		
Benzo (k) fluoranthene	**1.88**		mg/kg wet	0.326	2.61		72	40-140		
Benzo (a) pyrene	**1.76**		mg/kg wet	0.326	2.61		68	40-140		
Indeno (1,2,3-cd) pyrene	**1.88**		mg/kg wet	0.326	2.61		72	40-140		
Dibenzo (a,h) anthracene	**1.90**		mg/kg wet	0.326	2.61		73	40-140		
Benzo (g,h,i) perylene	**1.91**		mg/kg wet	0.326	2.61		73	40-140		
n-Nonane (C9)	**3.76**		mg/kg wet	0.326	6.52		58	30-140		
n-Decane	**4.13**		mg/kg wet	0.326	6.52		63	40-140		
n-Dodecane	**4.12**		mg/kg wet	0.326	6.52		63	40-140		
n-Tetradecane	**4.07**		mg/kg wet	0.326	6.52		62	40-140		
n-Hexadecane	**4.04**		mg/kg wet	0.326	6.52		62	40-140		
n-Octadecane	**3.90**		mg/kg wet	0.326	6.52		60	40-140		
n-Nonadecane	**3.85**		mg/kg wet	0.326	6.52		59	40-140		
n-Eicosane	**3.76**		mg/kg wet	0.326	6.52		58	40-140		
n-Docosane	**3.95**		mg/kg wet	0.326	6.52		61	40-140		
n-Tetracosane	**3.97**		mg/kg wet	0.326	6.52		61	40-140		
n-Hexacosane	**3.89**		mg/kg wet	0.326	6.52		60	40-140		
n-Octacosane	**3.97**		mg/kg wet	0.326	6.52		61	40-140		
n-Triacontane	**4.04**		mg/kg wet	0.326	6.52		62	40-140		
n-Hexatriacontane	**4.45**		mg/kg wet	0.326	6.52		68	40-140		
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.61			0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.61			0-200		
Surrogate: 1-Chlorooctadecane	*3.66*		mg/kg wet		*3.26*		*112*	*40-140*		
Surrogate: Ortho-Terphenyl	*1.89*		mg/kg wet		*3.26*		*58*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.65*		mg/kg wet		*2.61*		*63*	*40-140*		
LCS (1616222-BS2)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**42.0**		mg/kg wet	10.0	40.0		105	40-140		
C19-C36 Aliphatic Hydrocarbons	**40.5**		mg/kg wet	10.0	53.3		76	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**32.9**		mg/kg wet	10.0	45.3		73	40-140		
Naphthalene	**1.51**		mg/kg wet	0.333	2.67		57	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616222 - SW846 3545A										
LCS (1616222-BS2)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
2-Methylnaphthalene	**1.50**		mg/kg wet	0.333	2.67		56	40-140		
Acenaphthylene	**1.87**		mg/kg wet	0.333	2.67		70	40-140		
Acenaphthene	**1.78**		mg/kg wet	0.333	2.67		67	40-140		
Fluorene	**1.70**		mg/kg wet	0.333	2.67		64	40-140		
Phenanthrene	**1.77**		mg/kg wet	0.333	2.67		66	40-140		
Anthracene	**1.66**		mg/kg wet	0.333	2.67		62	40-140		
Fluoranthene	**1.95**		mg/kg wet	0.333	2.67		73	40-140		
Pyrene	**1.94**		mg/kg wet	0.333	2.67		73	40-140		
Benzo (a) anthracene	**1.79**		mg/kg wet	0.333	2.67		67	40-140		
Chrysene	**1.86**		mg/kg wet	0.333	2.67		70	40-140		
Benzo (b) fluoranthene	**1.83**		mg/kg wet	0.333	2.67		69	40-140		
Benzo (k) fluoranthene	**1.97**		mg/kg wet	0.333	2.67		74	40-140		
Benzo (a) pyrene	**1.84**		mg/kg wet	0.333	2.67		69	40-140		
Indeno (1,2,3-cd) pyrene	**1.84**		mg/kg wet	0.333	2.67		69	40-140		
Dibenzo (a,h) anthracene	**1.82**		mg/kg wet	0.333	2.67		68	40-140		
Benzo (g,h,i) perylene	**1.95**		mg/kg wet	0.333	2.67		73	40-140		
n-Nonane (C9)	**3.58**		mg/kg wet	0.333	6.67		54	30-140		
n-Decane	**3.86**		mg/kg wet	0.333	6.67		58	40-140		
n-Dodecane	**3.95**		mg/kg wet	0.333	6.67		59	40-140		
n-Tetradecane	**3.84**		mg/kg wet	0.333	6.67		58	40-140		
n-Hexadecane	**3.76**		mg/kg wet	0.333	6.67		56	40-140		
n-Octadecane	**3.75**		mg/kg wet	0.333	6.67		56	40-140		
n-Nonadecane	**3.77**		mg/kg wet	0.333	6.67		57	40-140		
n-Eicosane	**3.82**		mg/kg wet	0.333	6.67		57	40-140		
n-Docosane	**3.90**		mg/kg wet	0.333	6.67		58	40-140		
n-Tetracosane	**3.95**		mg/kg wet	0.333	6.67		59	40-140		
n-Hexacosane	**4.03**		mg/kg wet	0.333	6.67		60	40-140		
n-Octacosane	**4.17**		mg/kg wet	0.333	6.67		63	40-140		
n-Triacontane	**4.20**		mg/kg wet	0.333	6.67		63	40-140		
n-Hexatriacontane	**4.56**		mg/kg wet	0.333	6.67		68	40-140		
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.67			0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.67			0-200		
Surrogate: 1-Chlorooctadecane	*3.90*		mg/kg wet		*3.33*		*117*	*40-140*		
Surrogate: Ortho-Terphenyl	*1.91*		mg/kg wet		*3.33*		*57*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.70*		mg/kg wet		*2.67*		*64*	*40-140*		
LCS Dup (1616222-BSD1)					Prepared: 20-Sep-16 Analyzed: 21-Sep-16					
C9-C18 Aliphatic Hydrocarbons	**32.3**	QR2	mg/kg wet	9.91	39.6		82	40-140	27	25
C19-C36 Aliphatic Hydrocarbons	**35.5**		mg/kg wet	9.91	52.8		67	40-140	19	25
Unadjusted C11-C22 Aromatic Hydrocarbons	**34.3**		mg/kg wet	9.91	44.9		76	40-140	8	25
Naphthalene	**1.53**		mg/kg wet	0.330	2.64		58	40-140	6	25
2-Methylnaphthalene	**1.50**		mg/kg wet	0.330	2.64		57	40-140	4	25
Acenaphthylene	**1.87**		mg/kg wet	0.330	2.64		71	40-140	3	25
Acenaphthene	**1.79**		mg/kg wet	0.330	2.64		68	40-140	4	25
Fluorene	**1.68**		mg/kg wet	0.330	2.64		63	40-140	2	25
Phenanthrene	**1.68**		mg/kg wet	0.330	2.64		64	40-140	2	25
Anthracene	**1.69**		mg/kg wet	0.330	2.64		64	40-140	2	25
Fluoranthene	**2.01**		mg/kg wet	0.330	2.64		76	40-140	8	25
Pyrene	**1.97**		mg/kg wet	0.330	2.64		75	40-140	6	25
Benzo (a) anthracene	**1.97**		mg/kg wet	0.330	2.64		74	40-140	9	25
Chrysene	**1.91**		mg/kg wet	0.330	2.64		72	40-140	6	25
Benzo (b) fluoranthene	**2.23**	QR2	mg/kg wet	0.330	2.64		85	40-140	40	25

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1616222 - SW846 3545A										
LCS Dup (1616222-BSD1)					Prepared: 20-Sep-16		Analyzed: 21-Sep-16			
Benzo (k) fluoranthene	**2.07**		mg/kg wet	0.330	2.64		78	40-140	9	25
Benzo (a) pyrene	**1.90**		mg/kg wet	0.330	2.64		72	40-140	8	25
Indeno (1,2,3-cd) pyrene	**2.04**		mg/kg wet	0.330	2.64		77	40-140	8	25
Dibenzo (a,h) anthracene	**2.06**		mg/kg wet	0.330	2.64		78	40-140	8	25
Benzo (g,h,i) perylene	**2.05**		mg/kg wet	0.330	2.64		78	40-140	7	25
n-Nonane (C9)	**3.63**		mg/kg wet	0.330	6.61		55	30-140	3	25
n-Decane	**3.98**		mg/kg wet	0.330	6.61		60	40-140	4	25
n-Dodecane	**3.88**		mg/kg wet	0.330	6.61		59	40-140	6	25
n-Tetradecane	**3.85**		mg/kg wet	0.330	6.61		58	40-140	5	25
n-Hexadecane	**3.78**		mg/kg wet	0.330	6.61		57	40-140	7	25
n-Octadecane	**3.79**		mg/kg wet	0.330	6.61		57	40-140	3	25
n-Nonadecane	**3.84**		mg/kg wet	0.330	6.61		58	40-140	0.3	25
n-Eicosane	**3.86**		mg/kg wet	0.330	6.61		58	40-140	3	25
n-Docosane	**4.03**		mg/kg wet	0.330	6.61		61	40-140	2	25
n-Tetracosane	**4.06**		mg/kg wet	0.330	6.61		62	40-140	2	25
n-Hexacosane	**4.18**		mg/kg wet	0.330	6.61		63	40-140	7	25
n-Octacosane	**4.27**		mg/kg wet	0.330	6.61		65	40-140	7	25
n-Triacontane	**4.32**		mg/kg wet	0.330	6.61		65	40-140	7	25
n-Hexatriacontane	**4.76**		mg/kg wet	0.330	6.61		72	40-140	7	25
Naphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.64			0-200		200
2-Methylnaphthalene (aliphatic fraction)	**0.00**		mg/kg wet		2.64			0-200		200
Surrogate: 1-Chlorooctadecane	*3.85*		mg/kg wet		*3.30*		*117*	*40-140*		
Surrogate: Ortho-Terphenyl	*2.05*		mg/kg wet		*3.30*		*62*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*1.62*		mg/kg wet		*2.64*		*61*	*40-140*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615978 - SW846 3051A										
Blank (1615978-BLK1)						Prepared & Analyzed: 21-Sep-16				
Arsenic	< 1.36		mg/kg wet	1.36						
Lead	< 1.36		mg/kg wet	1.36						
Duplicate (1615978-DUP1)			**Source: SC25871-20**			Prepared & Analyzed: 21-Sep-16				
Arsenic	**15.8**		mg/kg dry	1.53		16.3			3	20
Lead	**917**		mg/kg dry	1.53		912			0.6	20
Matrix Spike (1615978-MS1)			**Source: SC25871-20**			Prepared & Analyzed: 21-Sep-16				
Arsenic	**142**		mg/kg dry	1.54	128	16.3	98	75-125		
Lead	**1030**		mg/kg dry	1.54	128	912	94	75-125		
Matrix Spike Dup (1615978-MSD1)			**Source: SC25871-20**			Prepared & Analyzed: 21-Sep-16				
Arsenic	**134**		mg/kg dry	1.50	125	16.3	94	75-125	6	20
Lead	**1010**		mg/kg dry	1.50	125	912	80	75-125	2	20
Post Spike (1615978-PS1)			**Source: SC25871-20**			Prepared & Analyzed: 21-Sep-16				
Arsenic	**144**		mg/kg dry	1.57	131	16.3	98	80-120		
Reference (1615978-SRM1)						Prepared & Analyzed: 21-Sep-16				
Lead	**38.8**		mg/kg wet	1.50	43.1		90	80-118		
Arsenic	**26.7**		mg/kg wet	1.50	28.7		93	75.1-124.9		
Reference (1615978-SRM2)						Prepared & Analyzed: 21-Sep-16				
Lead	**39.5**		mg/kg wet	1.50	43.3		91	80-118		
Arsenic	**27.8**		mg/kg wet	1.50	28.8		96	75.1-124.9		
Batch 1615980 - SW846 3050B										
Blank (1615980-BLK1)						Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Arsenic	< 1.47		mg/kg wet	1.47						
Lead	< 1.47		mg/kg wet	1.47						
Duplicate (1615980-DUP1)			**Source: SC25871-02**			Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Lead	**25.9**		mg/kg dry	1.46		24.9			4	20
Arsenic	**17.8**		mg/kg dry	1.46		17.2			4	20
Matrix Spike (1615980-MS1)			**Source: SC25871-02**			Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Arsenic	**123**		mg/kg dry	1.44	120	17.2	88	75-125		
Lead	**122**		mg/kg dry	1.44	120	24.9	80	75-125		
Matrix Spike Dup (1615980-MSD1)			**Source: SC25871-02**			Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Lead	**126**		mg/kg dry	1.50	125	24.9	81	75-125	3	20
Arsenic	**125**		mg/kg dry	1.50	125	17.2	86	75-125	2	20
Post Spike (1615980-PS1)			**Source: SC25871-02**			Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Arsenic	**122**		mg/kg dry	1.41	118	17.2	89	80-120		
Lead	**124**		mg/kg dry	1.41	118	24.9	84	80-120		
Reference (1615980-SRM1)						Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Arsenic	**26.5**		mg/kg wet	1.50	28.5		93	75.1-124.9		
Lead	**36.8**		mg/kg wet	1.50	42.8		86	80-118		
Reference (1615980-SRM2)						Prepared: 16-Sep-16 Analyzed: 22-Sep-16				
Arsenic	**25.5**		mg/kg wet	1.50	28.7		89	75.1-124.9		
Lead	**36.6**		mg/kg wet	1.50	43.2		85	80-118		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1615905 - General Preparation										
Duplicate (1615905-DUP1)			**Source: SC25871-01**			Prepared & Analyzed: 14-Sep-16				
% Solids	**98.6**		%			98.3			0.3	5
Duplicate (1615905-DUP2)			**Source: SC25871-02**			Prepared & Analyzed: 14-Sep-16				
% Solids	**98.4**		%			98.1			0.4	5
Batch 1615907 - General Preparation										
Duplicate (1615907-DUP1)			**Source: SC25871-21**			Prepared & Analyzed: 14-Sep-16				
% Solids	**92.9**		%			92.7			0.2	5

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S608059				
Calibration Check (S608059-CCV1)				
C9-C18 Aliphatic Hydrocarbons	259721.9	217136.9	6.4	25
C19-C36 Aliphatic Hydrocarbons	812295.3	319333.8	-13.9	25
Unadjusted C11-C22 Aromatic Hydrocarbons	325.6827	18.49218	-17.3	20
Naphthalene	5.273789	5.054097	-10.0	20
2-Methylnaphthalene	3.374721	3.492789	-7.1	20
Acenaphthylene	5.37903	5.656011	5.1	20
Acenaphthene	3.577019	3.522952	-1.5	20
Fluorene	3.81982	3.996318	-3.3	20
Phenanthrene	5.241955	5.626164	-1.4	20
Anthracene	5.702162	5.691546	-6.5	20
Fluoranthene	5.92682	6.449783	8.8	20
Pyrene	6.318983	6.714773	6.3	20
Benzo (a) anthracene	4.696516	6.284116	8.6	20
Chrysene	6.580038	6.489466	-1.4	20
Benzo (b) fluoranthene	4.709043	5.739197	-0.3	20
Benzo (k) fluoranthene	6.59698	7.054316	6.9	20
Benzo (a) pyrene	4.903877	6.145104	9.8	20
Indeno (1,2,3-cd) pyrene	5.344321	7.071513	14.3	20
Dibenzo (a,h) anthracene	4.563802	6.116955	15.3	20
Benzo (g,h,i) perylene	5.016644	5.822019	8.6	20
n-Nonane (C9)	242104.7	195780.2	-19.1	25
n-Decane	249233.9	206570.8	-17.1	25
n-Dodecane	253008.2	206011.6	-18.6	25
n-Tetradecane	257952.6	208572.8	-19.1	25
n-Hexadecane	256806	206743	-19.5	25
n-Octadecane	254761.7	206340	-19.0	25
n-Nonadecane	250983	202270	-19.4	25
n-Eicosane	249395.5	199746	-19.9	25
n-Docosane	246466.5	200642	-18.6	25
n-Tetracosane	242675.7	199734.8	-17.7	25
n-Hexacosane	238380.6	195351.9	-18.1	25
n-Octacosane	235606.8	195620.1	-17.0	25
n-Triacontane	233578.9	191974.4	-17.8	25
n-Hexatriacontane	208035.1	178551.2	-14.2	25
Naphthalene (aliphatic fraction)	192231.4			
2-Methylnaphthalene (aliphatic fraction)	188613.6			
Batch S608077				
Calibration Check (S608077-CCV1)				
C9-C18 Aliphatic Hydrocarbons	259721.9	236589.8	19.2	25
C19-C36 Aliphatic Hydrocarbons	812295.3	320009.3	-13.5	25
Unadjusted C11-C22 Aromatic Hydrocarbons	325.6827	20.21626	-8.3	20
Naphthalene	5.273789	5.640179	1.2	20
2-Methylnaphthalene	3.374721	3.864266	3.7	20
Acenaphthylene	5.37903	6.335672	17.8	20
Acenaphthene	3.577019	3.994165	11.7	20
Fluorene	3.81982	4.541129	11.1	20
Phenanthrene	5.241955	6.13533	8.2	20
Anthracene	5.702162	6.207505	2.7	20
Fluoranthene	5.92682	6.834158	15.3	20
Pyrene	6.318983	7.101875	12.4	20
Benzo (a) anthracene	4.696516	6.455566	11.6	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S608077				
Calibration Check (S608077-CCV1)				
Chrysene	6.580038	6.776689	3.0	20
Benzo (b) fluoranthene	4.709043	6.201996	7.6	20
Benzo (k) fluoranthene	6.59698	7.229783	9.6	20
Benzo (a) pyrene	4.903877	6.391366	14.0	20
Indeno (1,2,3-cd) pyrene	5.344321	7.22501	16.7	20
Dibenzo (a,h) anthracene	4.563802	6.216038	17.1	20
Benzo (g,h,i) perylene	5.016644	6.017097	12.0	20
n-Nonane (C9)	242104.7	224149.6	-7.4	25
n-Decane	249233.9	251545.2	0.9	25
n-Dodecane	253008.2	233388.6	-7.8	25
n-Tetradecane	257952.6	232990.8	-9.7	25
n-Hexadecane	256806	224190	-12.7	25
n-Octadecane	254761.7	221885.6	-12.9	25
n-Nonadecane	250983	219177.6	-12.7	25
n-Eicosane	249395.5	219820.2	-11.9	25
n-Docosane	246466.5	231996.6	-5.9	25
n-Tetracosane	242675.7	230979.6	-4.8	25
n-Hexacosane	238380.6	224272.6	-5.9	25
n-Octacosane	235606.8	224879.2	-4.6	25
n-Triacontane	233578.9	226988.2	-2.8	25
n-Hexatriacontane	208035.1	220965.8	6.2	25
Naphthalene (aliphatic fraction)	192231.4			
2-Methylnaphthalene (aliphatic fraction)	188613.6			
Batch S608078				
Calibration Check (S608078-CCV1)				
C9-C18 Aliphatic Hydrocarbons	259721.9	236589.8	19.2	25
C19-C36 Aliphatic Hydrocarbons	812295.3	320009.3	-13.5	25
Unadjusted C11-C22 Aromatic Hydrocarbons	325.6827	20.21626	-8.3	20
Naphthalene	5.273789	5.640179	1.2	20
2-Methylnaphthalene	3.374721	3.864266	3.7	20
Acenaphthylene	5.37903	6.335672	17.8	20
Acenaphthene	3.577019	3.994165	11.7	20
Fluorene	3.81982	4.541129	11.1	20
Phenanthrene	5.241955	6.13533	8.2	20
Anthracene	5.702162	6.207505	2.7	20
Fluoranthene	5.92682	6.834158	15.3	20
Pyrene	6.318983	7.101875	12.4	20
Benzo (a) anthracene	4.696516	6.455566	11.6	20
Chrysene	6.580038	6.776689	3.0	20
Benzo (b) fluoranthene	4.709043	6.201996	7.6	20
Benzo (k) fluoranthene	6.59698	7.229783	9.6	20
Benzo (a) pyrene	4.903877	6.391366	14.0	20
Indeno (1,2,3-cd) pyrene	5.344321	7.22501	16.7	20
Dibenzo (a,h) anthracene	4.563802	6.216038	17.1	20
Benzo (g,h,i) perylene	5.016644	6.017097	12.0	20
n-Nonane (C9)	242104.7	224149.6	-7.4	25
n-Decane	249233.9	251545.2	0.9	25
n-Dodecane	253008.2	233388.6	-7.8	25
n-Tetradecane	257952.6	232990.8	-9.7	25
n-Hexadecane	256806	224190	-12.7	25
n-Octadecane	254761.7	221885.6	-12.9	25

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S608078				
Calibration Check (S608078-CCV1)				
n-Nonadecane	250983	219177.6	-12.7	25
n-Eicosane	249395.5	219820.2	-11.9	25
n-Docosane	246466.5	231996.6	-5.9	25
n-Tetracosane	242675.7	230979.6	-4.8	25
n-Hexacosane	238380.6	224272.6	-5.9	25
n-Octacosane	235606.8	224879.2	-4.6	25
n-Triacontane	233578.9	226988.2	-2.8	25
n-Hexatriacontane	208035.1	220965.8	6.2	25
Naphthalene (aliphatic fraction)	192231.4			
2-Methylnaphthalene (aliphatic fraction)	188613.6			
Batch S608116				
Calibration Check (S608116-CCV1)				
C9-C18 Aliphatic Hydrocarbons	259721.9	232033.2	16.2	25
C19-C36 Aliphatic Hydrocarbons	812295.3	324441.5	-10.9	25
Unadjusted C11-C22 Aromatic Hydrocarbons	325.6827	20.38672	-7.4	20
Naphthalene	5.273789	5.338825	-4.6	20
2-Methylnaphthalene	3.374721	3.522623	-6.2	20
Acenaphthylene	5.37903	5.759897	7.1	20
Acenaphthene	3.577019	3.568405	-0.2	20
Fluorene	3.81982	4.070118	-1.3	20
Phenanthrene	5.241955	5.657427	-0.8	20
Anthracene	5.702162	5.728265	-5.9	20
Fluoranthene	5.92682	6.407362	8.1	20
Pyrene	6.318983	6.680531	5.7	20
Benzo (a) anthracene	4.696516	6.275873	8.5	20
Chrysene	6.580038	6.397787	-2.8	20
Benzo (b) fluoranthene	4.709043	6.214225	7.9	20
Benzo (k) fluoranthene	6.59698	6.661738	1.0	20
Benzo (a) pyrene	4.903877	6.064448	8.3	20
Indeno (1,2,3-cd) pyrene	5.344321	7.04537	13.9	20
Dibenzo (a,h) anthracene	4.563802	6.162417	16.1	20
Benzo (g,h,i) perylene	5.016644	5.882723	9.6	20
n-Nonane (C9)	242104.7	217681.8	-10.1	25
n-Decane	249233.9	224405.6	-10.0	25
n-Dodecane	253008.2	225924	-10.7	25
n-Tetradecane	257952.6	225374	-12.6	25
n-Hexadecane	256806	217340.2	-15.4	25
n-Octadecane	254761.7	214583.6	-15.8	25
n-Nonadecane	250983	211653.2	-15.7	25
n-Eicosane	249395.5	212948.6	-14.6	25
n-Docosane	246466.5	223616.8	-9.3	25
n-Tetracosane	242675.7	222370	-8.4	25
n-Hexacosane	238380.6	215115	-9.8	25
n-Octacosane	235606.8	215088.4	-8.7	25
n-Triacontane	233578.9	217499.6	-6.9	25
n-Hexatriacontane	208035.1	209763.8	0.8	25
Naphthalene (aliphatic fraction)	192231.4			
2-Methylnaphthalene (aliphatic fraction)	188613.6			

Notes and Definitions

CCE	The upper linear range for carbon chains is defined by peak height not concentration. Based on the maximum peak height for this fraction it is shown to be within the linear range of the detector and therefore not diluted further.
D	Data reported from a dilution
EPH	Sample was fractionated at a dilution. The total hydrocarbon concentaction was over threshold capacity of the fractionation column (5mg per gram silica gel).
P	Difference between the two GC columns is greater than 40%.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC25871 NRV

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CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:

☐ Standard TAT - 7 to 10 business days

☑ Rush TAT - Date Needed: 9/22

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: STANTEC
400 CROWN COLONY DRIVE
SUITE 200
QUINCY, MA 02169

Telephone #:

Project Mgr: CHARLES YOUNG

Invoice To: SAME

P.O No.: Quote #:

Project No: 191750214

Site Name: NATICK RAIL TRAIL

Location: NATICK State: MA

Sampler(s): NCG / DT

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List Preservative Code below:

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	EPH+PAH	PCB	Pb	As	Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
SC25871-01	13-1	9/13/16	1640	G	SO		1			X	X	X	X	☐	S-1 / GW-1
-02	14-1		1645											☐	
-03	14-2		1650											☐	
-04	14-3		1700											☐	
-05	25-1		1430											☐	
-06	25-2		1435											☐	
-07	26-1		1440											☐	
-08	26-2		1445											☐	
-09	26-3		1450											☐	
-10	26-4		1455											☐	

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☒ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other:
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	9/14/16	11:54
[signature]	[signature]	9/14/16	1600

Temp °C: Observed 1.9; Correction Factor 0; Corrected 1.9; IR ID # 02

☒ EDD format: PDF

☒ E-mail to: CHARLES.YOUNG@STANTEC.COM

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken

☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC25871 NRV

SPECTRUM ANALYTICAL, INC.

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:

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400 CROWN COLONY DRIVE
SUITE 200
QUINCY, MA 02169

Telephone #:

Project Mgr: CHARLES YOUNG

Invoice To: SAME

P.O No.: Quote/RQN:

Project No: 191750214

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Location: NATICK State: MA

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7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

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Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		EPH + PAH	PCB	Pb	As					Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
SC25871-11	26-5	9/13/16	1500	G	SO		1				X	X	X	X					☐	S-1/GW-1
-12	26-6		1510																☐	
-13	27-1		1515																☐	
-14	27-2		1520																☐	
-15	27-3	*	1525																☐	
-16	27-4		1530																☐	
-17	27-5		1535																☐	* client emailed
-18	27-6		1540																☐	9-14-16
-19	27-7		1545																☐	
-20	27-8		1550																☐	

MA DEP MCP CAM Report? ☒ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other:
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
		9/14/16	11:54	Observed 1.9
		9/14/16	1600	Correction Factor 0
				Corrected 1.9
				IR ID # 02

☒ EDD format: PDF

☒ E-mail to: CHARLES.YOUNG@STANTEC.COM

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken

☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

1SC25871 NRV

SPECTRUM ANALYTICAL, INC.

CHAIN OF CUSTODY RECORD

Page 3 of 3

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X1= X2= X3=

G= Grab C=Compsite

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☒ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other:
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	EPH + PAH	PCB	Pb	As	Check if chlorinated	QA/QC Reporting Notes
SC25871-21	27-9	9/13/16	1615	G	SO		1			X	X	X	X	☐	S-1 / GW-1
-22	28-1	↓	1555	↓	↓		↓			↓	↓	↓	↓	☐	
-23	28-2		1600											☐	
-24	28-3		1605											☐	
-25	28-4		1610											☐	
														☐	
														☐	
														☐	
														☐	
														☐	

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	9/14/16	11:54	Observed 1.9
[signature]	[signature]	9/14/16	1600	Correction Factor 0
				Corrected 1.9
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APPENDIX B

Photographs

Photograph showing supplemental sampling of surficial soil along the rail trail behind the building location at 63 Washington Avenue. Sample location 26-2.

Photograph showing large stockpile of soil covering entire width of rail trail near the Edison Building.

Photograph showing stockpiles of crushed stone and ballast along the rail trail near the Edison Building. The stone piles and covering the rail trail surface hindered collection of soil samples at these locations. Stantec personnel at sample location 27-5.

Photograph showing sampling location near the pathway to Navy Yard Field (right side of photo). The rail trail in this location appears to have been stripped, leaving a berm of material along the western edge. Sample location 27-7.